



FCC RADIO TEST REPORT

FCC ID : A4RG1MNW
Equipment : Phone
Model Name : G1MNW
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC 47 CFR Part 2, 96

The product was received on Feb. 02, 2023 and testing was performed from Feb. 03, 2023 to Jun. 08, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG2D0206-01G	01	Initial issue of report	Jun. 29, 2023



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	5.76 dB under limit at 11044.000 MHz for Primary Antenna 11.96 dB under limit at 14725.000 MHz for ASDIV Antenna

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Clio Lo



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	G1MNW
FCC ID	A4RG1MNW
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS/ UWB/WPT WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 WLAN 11be EHT20/EHT40/EHT80/EHT160 Bluetooth BR/EDR/LE/HR

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
31061FDJG00035	Conducted Measurement
33141FDJG0012W	EIRP
33161FDJG000BA	Radiated Spurious Emission

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx Frequency	3552.5 MHz ~ 3697.5 MHz
Rx Frequency	3552.5 MHz ~ 3697.5 MHz
Bandwidth	10 MHz / 15 MHz / 20 MHz / 40 MHz
Maximum Output Power to Antenna	<Primary Antenna>: 22.38 dBm <ASDIV Antenna>: 23.30 dBm <MIMO Mode>: MIMO <Ant. 6+1>: 22.16 dBm MIMO <Ant. 6+5>: 22.41 dBm MIMO <Ant. 7+1>: 21.69 dBm MIMO <Ant. 7+5>: 22.64 dBm
Antenna Type	<Primary Antenna>: <Ant. 6>: PIFA Antenna <ASDIV Antenna>: <Ant. 7>: PIFA Antenna <SRS diversity Antenna >: <Ant. 1>: PIFA Antenna <Ant. 5>: PIFA Antenna
Type of Modulation	PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM



<Primary Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n48	Ant. 6	0.6

<ASDIV Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n48	Ant. 7	-3.6

<SRS diversity Antenna>

Radio Tech	Band Number	Antenna name	Gain
5G NR	n48	Ant. 1	-3.8
5G NR	n48	Ant. 5	-3.4

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.



1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH03-HY (TAF Code: 1190)	
Test Engineer	Sherry Wu	
Temperature (°C)	20~24	
Relative Humidity (%)	43~58	
Remark	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.	

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	03CH12-HY	03CH20-HY
Test Engineer	Jesse Fan, Tim Lee and Wilson Wu	John Chuang, JC Liang and Howard Huang
Temperature (°C)	20~25	18.8~20.1
Relative Humidity (%)	50~60	67.9~69.5

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

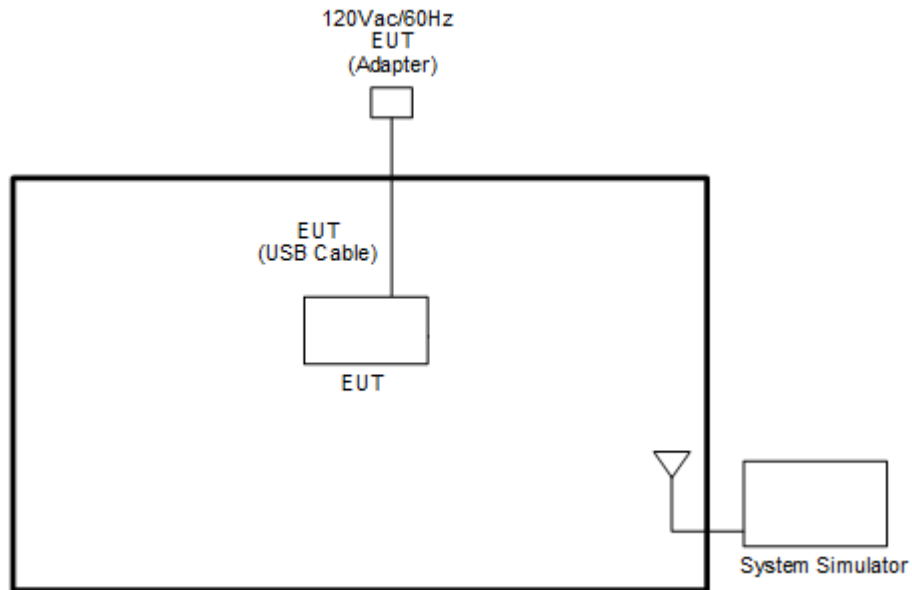
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and accessory (Adapter or Earphone) and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

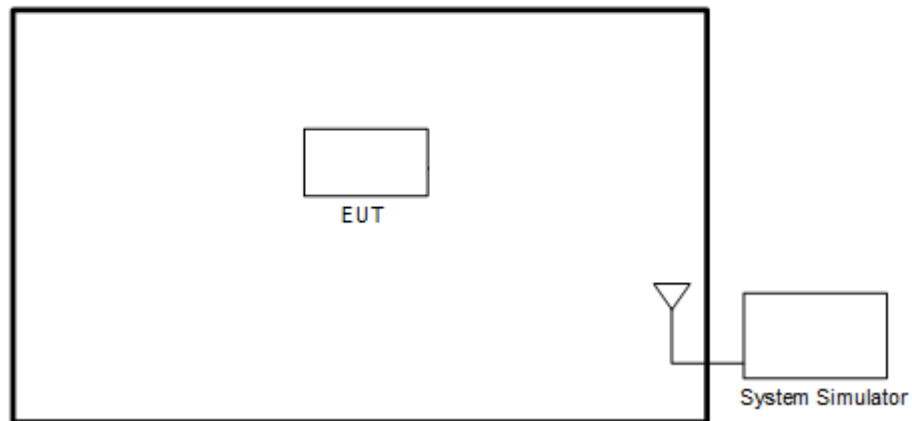
Test Items	Band	Bandwidth (MHz)				Modulation					RB #			Test Channel		
		10	15	20	40	PI/2 BPSK	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	n48	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	n48	v	v	v	v	v	v	v	v	v			v		v	
Conducted Band Edge	n48	v	v	v	v	v	v	v	v	v	v		v	v	v	v
Peak-to-Average Ratio	n48			v		v	v	v	v	v			v		v	
Conducted Spurious Emission	n48	v	v	v	v		v				v			v	v	v
E.I.R.P	n48	v	v	v	v	v	v	v	v	v	Max. Power					
Frequency Stability	n48			v		v	v				v				v	
Radiated Spurious Emission	n48	Worst Case											v	v	v	
Remark	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. All the radiated test cases were performed with Adapter 1 and USB Cable 1. For radiated measurement, pre-scanned in two modes, DFT-s OFDM and CP OFDM. The worst cases (DFT-s OFDM) were recorded in this report. During the preliminary test, both charging modes (Adapter mode and WPT mode) were verified. It is determined that the adaptor mode is the worst case for official test. One representative bandwidth is selected to perform PAR and frequency stability. The n48 supports total 4 UL MIMO combinations: Ant6+Ant1, Ant6+Ant5, Ant7+Ant1, Ant7+Ant5 and the worst case combination is determined during the preliminary test that Ant6+Ant1 is reported as worst case with Ant7+Ant5 RSE check data. 															

2.2 Connection Diagram of Test System

<EUT with Adapter>



<EUT without Accessory>



2.3 Support Unit used in test configuration

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m



2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 4.2 + 10 = 14.2 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G NR n48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

3 Conducted Test Items

3.1 Measuring Instruments

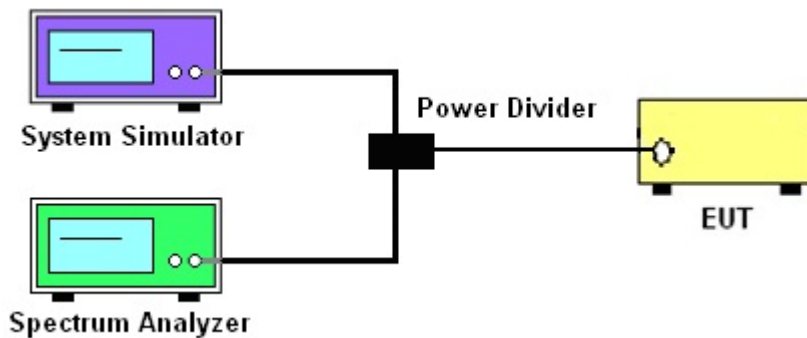
See list of measuring instruments of this test report.

3.1.1 Test Setup

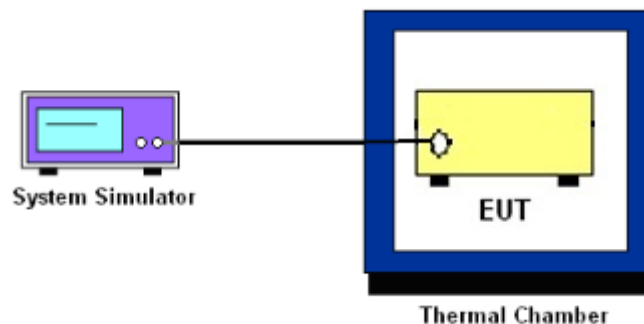
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power Measurement

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio



3.4 EIRP

3.4.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for 5G NR n48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT – LC, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark:

- Total channel power is complied with EIRP limit 23dBm/10MHz.
- For MIMO mode, the directional gain calculation is following F)2)d) of KDB 662911 D01 v02r01.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by G₁, G₂, ..., G_N dBi

(ii) If all transmit signals are *completely uncorrelated*, then

$$\text{Directional gain} = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{ANT}] \text{ dBi}$$

					MIMO Mode
					Uncorrelated
5G NR	Ant 6	Ant 1	Ant 7	Ant 5	NSS = 2
n48	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)
Ant. 6 + 1	0.60	-3.80	-3.60	-3.40	-1.06
Ant. 7 + 5	0.60	-3.80	-3.60	-3.40	-3.49
Ant. 6 + 5	0.60	-3.80	-3.60	-3.40	-0.95
Ant. 7 + 1	0.60	-3.80	-3.60	-3.40	-3.69

Directional gain for Ant. 6+1 uncorrelated of MIMO mode derived from formula which is

$$10 \times \log \{ [10^{(0.6 \text{ dBi} / 10)} + 10^{(-3.8 \text{ dBi} / 10)}] / 2 \}$$

$$= -1.06 \text{ dBi}$$



3.4.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.



3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=2) = 3.01\text{dB}$ into the spectrum analyzer offset.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.



3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is -40dBm/MHz.
10. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=2) = 3.01\text{dB}$ into the spectrum analyzer offset.



3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $25\pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

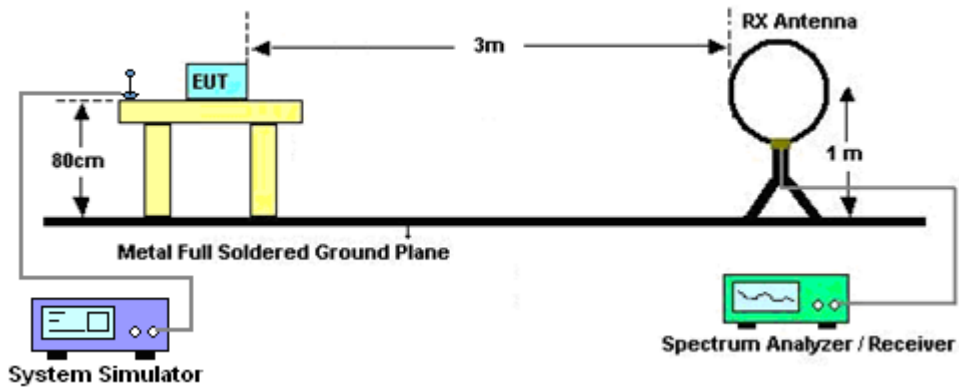
4 Radiated Test Items

4.1 Measuring Instruments

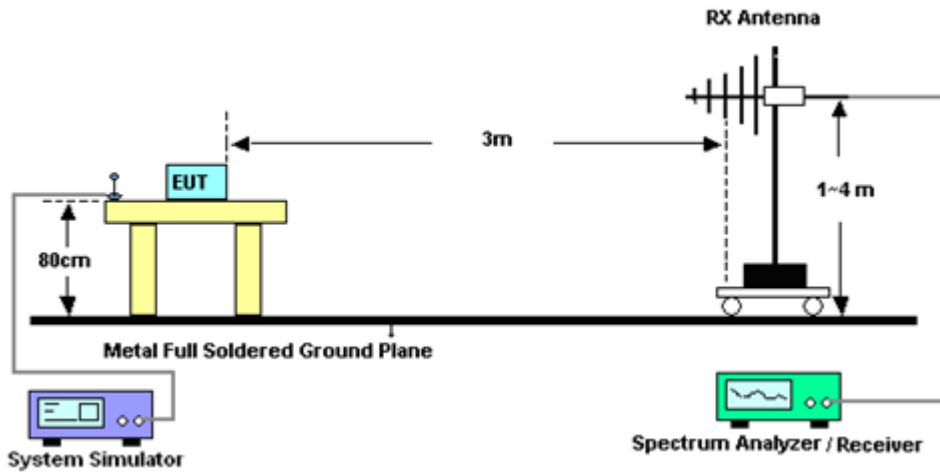
See list of measuring instruments of this test report.

4.2 Test Setup

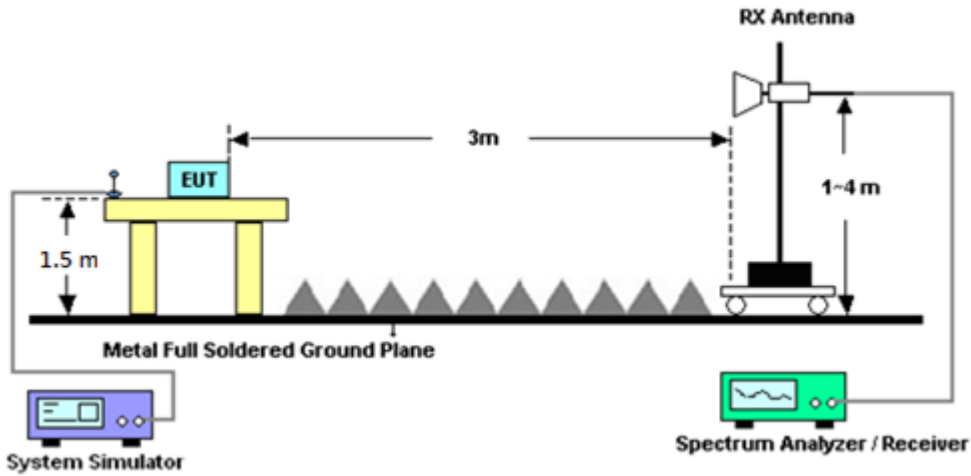
For radiated emissions below 30MHz



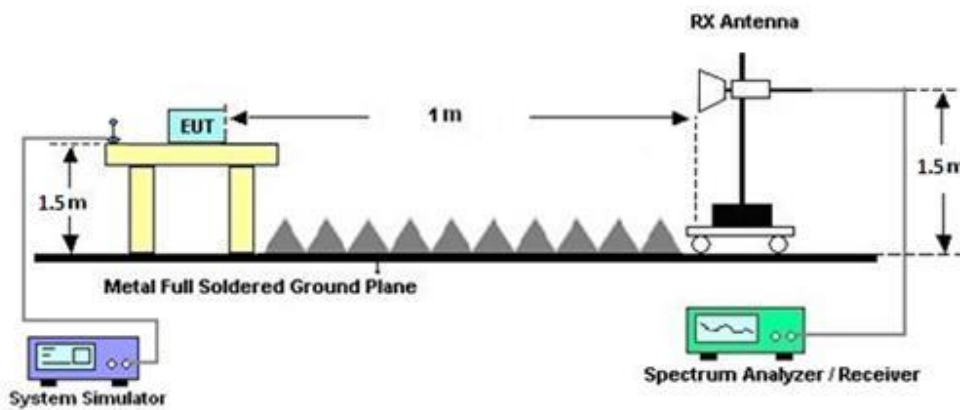
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz .
The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI / TIA-603-E Section 2.2.12.

1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY59053012	N/A	Nov. 18, 2022	Apr. 12, 2023~ Apr. 13, 2023	Nov. 17, 2023	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60241058	N/A	Jul. 07, 2022	Apr. 12, 2023~ Apr. 13, 2023	Jul. 06, 2023	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 02, 2023	Apr. 12, 2023~ Apr. 13, 2023	Jan. 01, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 14, 2022	Apr. 12, 2023~ Apr. 13, 2023	Nov. 13, 2023	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Apr. 12, 2023~ Apr. 13, 2023	Jun. 27, 2023	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Apr. 12, 2023~ Apr. 13, 2023	Sep. 19, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N1 D01N-06	55606 & 08	30MHz~1GHz	Oct. 22, 2022	Apr. 12, 2023~ Apr. 13, 2023	Oct. 21, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802N1 D01N-06	54682 & AT-N0603	30MHz~1GHz	Sep. 18, 2022	Apr. 12, 2023~ Apr. 13, 2023	Sep. 17, 2023	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz~18GHz	Nov. 04, 2022	Apr. 12, 2023~ Apr. 13, 2023	Nov. 03, 2023	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 09, 2022	Apr. 12, 2023~ Apr. 13, 2023	Aug. 08, 2023	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00994	18GHz-40GHz	Nov. 04, 2022	Apr. 12, 2023~ Apr. 13, 2023	Nov. 03, 2023	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz-40GHz	Nov. 24, 2022	Apr. 12, 2023~ Apr. 13, 2023	Nov. 23, 2023	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-302	SN3	N/A	Sep. 28, 2022	Apr. 12, 2023~ Apr. 13, 2023	Sep. 27, 2023	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2.8040 15/2,804027/2	N/A	Jan. 18, 2023	Apr. 12, 2023~ Apr. 13, 2023	Jan. 17, 2024	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2857/2	N/A	Sep. 28, 2022	Apr. 12, 2023~ Apr. 13, 2023	Sep. 27, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	Apr. 12, 2023~ Apr. 13, 2023	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 12, 2023~ Apr. 13, 2023	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 12, 2023~ Apr. 13, 2023	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 12, 2023~ Apr. 13, 2023	N/A	Radiation (03CH20-HY)
Filter	Wainwright	WHKX8-6090-700 0-18000-40SS	SN99	N/A	Nov. 03, 2022	Apr. 12, 2023~ Apr. 13, 2023	Nov. 02, 2023	Radiation (03CH20-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	50Hz~60Hz	Sep. 29, 2022	Feb. 03, 2023~ Jun. 08, 2023	Sep. 28, 2023	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101049	10Hz~44GHz	Oct. 07, 2022	Feb. 03, 2023~ Jun. 08, 2023	Oct. 06, 2023	Conducted (TH03-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 07, 2022	Feb. 03, 2023~ Jun. 08, 2023	Sep. 06, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116730	LTE	Jun. 15, 2022	Feb. 03, 2023~ Jun. 08, 2023	Jun. 14, 2023	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262134933	FR1	Jun. 13, 2022	Feb. 03, 2023~ Jun. 08, 2023	Jun. 22, 2023	Conducted (TH03-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Apr. 14, 2023~ Apr. 23, 2023	Sep. 19, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 10, 2022	Apr. 14, 2023~ Apr. 23, 2023	Nov. 09, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 09, 2022	Apr. 14, 2023~ Apr. 23, 2023	Aug. 08, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	Apr. 14, 2023~ Apr. 23, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Apr. 14, 2023~ Apr. 23, 2023	Oct. 02, 2023	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 24, 2022	Apr. 14, 2023~ Apr. 23, 2023	May 23, 2023	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18G-5 6-01-A70	EC1900249	1GHz-18GHz	Dec. 21, 2022	Apr. 14, 2023~ Apr. 23, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	Apr. 14, 2023~ Apr. 23, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	Apr. 14, 2023~ Apr. 23, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-1080-12 00-15000-60SS	SN1	1.2GHz High Pass Filter	Mar. 14, 2023	Apr. 14, 2023~ Apr. 23, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-30 00-18000-60ST	SN2	3GHz High Pass Filter	Mar. 14, 2023	Apr. 14, 2023~ Apr. 23, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6 750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 14, 2023	Apr. 14, 2023~ Apr. 23, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Apr. 14, 2023~ Apr. 23, 2023	Mar. 06, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Apr. 14, 2023~ Apr. 23, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Apr. 14, 2023~ Apr. 23, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Apr. 14, 2023~ Apr. 23, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Hygrometer	TECEPEL	DTM-303B	TP210090	N/A	Oct. 03, 2022	Apr. 14, 2023~ Apr. 23, 2023	Oct. 02, 2023	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 14, 2023~ Apr. 23, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Apr. 14, 2023~ Apr. 23, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 14, 2023~ Apr. 23, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Apr. 14, 2023~ Apr. 23, 2023	N/A	Radiation (03CH12-HY)



6 Measurement Uncertainty

<03CH12-HY>

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.25 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.81 dB
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<03CH20-HY>

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.33 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.40 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.43 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

<SISO Mode>

<Primary Antenna>

NR n48 Maximum Average Power [dBm] (GT - LC = 0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
10	1	1	PI/2 BPSK	22.03	22.27	22.18	22.91	0.1954
10	1	22		22.00	22.08	21.84		
10	12	6		22.01	22.09	22.12		
10	1	0		22.07	22.25	22.15		
10	1	23		21.98	22.10	21.82		
10	24	0		22.03	22.07	22.10		
10	1	1	QPSK	22.07	22.31	22.20		
10	1	22		22.03	22.10	21.85		
10	12	6		22.02	22.07	22.11		
10	1	0		22.04	22.31	22.19		
10	1	23		22.04	22.12	21.84		
10	24	0		22.01	22.08	22.10		
10	1	1	16-QAM	21.94	22.30	22.14	22.90	0.1950
10	1	1	64-QAM	21.95	22.28	22.08		
10	1	1	256-QAM	20.10	20.33	20.13		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

NR n48 Maximum Average Power [dBm] (GT - LC = 0.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
15	1	1	PI/2 BPSK	22.11	22.35	22.06	22.95	0.1972
15	1	36		22.00	22.08	21.80		
15	18	9		22.07	22.07	22.13		
15	1	0		22.09	22.30	22.07		
15	1	37		22.00	22.06	21.79		
15	36	0		22.09	22.07	22.11		
15	1	1	QPSK	20.60	22.34	22.08		
15	1	36		22.02	22.10	20.29		
15	18	9		22.10	22.08	22.12		
15	1	0		20.61	22.35	22.07		
15	1	37		22.02	22.10	20.27		
15	36	0		20.61	22.06	20.61		
15	1	1	16-QAM	19.68	22.36	22.16	22.96	0.1977
15	1	1	64-QAM	19.43	22.24	21.91		
15	1	1	256-QAM	20.12	20.32	19.99		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n48 Maximum Average Power [dBm] (GT - LC = 0.6 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	20.59	22.36	22.08	22.96	0.1977		
20	1	49		22.04	22.30	21.75				
20	25	12		22.15	22.10	22.12				
20	1	0		20.60	22.34	22.08				
20	1	50		22.02	22.29	21.75				
20	50	0		20.62	22.09	22.10				
20	1	1	QPSK	20.65	22.35	22.13			22.98	0.1986
20	1	49		22.06	22.32	20.31				
20	25	12		22.15	22.09	22.15				
20	1	0		20.68	22.34	22.08				
20	1	50		22.07	22.34	20.28				
20	50	0		20.65	22.12	20.64				
20	1	1	16-QAM	19.69	22.28	22.19	22.98	0.1986		
20	1	1	64-QAM	19.56	22.38	22.10				
20	1	1	256-QAM	20.11	20.22	19.86				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n48 Maximum Average Power [dBm] (GT - LC = 0.6 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	14.26	22.36	14.29	22.96	0.1977		
40	1	104		14.06	22.29	13.63				
40	50	25		14.20	22.34	14.03				
40	1	0		14.26	22.35	14.31				
40	1	105		14.03	22.26	13.61				
40	100	0		14.20	22.31	14.04				
40	1	1	QPSK	14.27	20.83	14.25			21.56	0.1432
40	1	104		14.10	20.76	13.63				
40	50	25		14.18	22.32	14.03				
40	1	0		14.23	20.86	14.26				
40	1	105		14.07	20.79	13.63				
40	100	0		14.17	20.31	13.99				
40	1	1	16-QAM	13.78	20.89	13.87	21.56	0.1432		
40	1	1	64-QAM	13.80	20.96	13.85				
40	1	1	256-QAM	13.86	20.31	13.86				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



<ASDIV Antenna>

NR n48 Maximum Average Power [dBm] (GT - LC = -3.6 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	23.29	23.09	22.84	19.70	0.0933		
10	1	22		23.15	23.06	22.71				
10	12	6		23.20	23.14	22.80				
10	1	0		23.27	23.10	22.85				
10	1	23		23.11	23.05	22.69				
10	24	0		23.21	23.16	22.80				
10	1	1	QPSK	23.30	23.07	22.88				
10	1	22		23.25	23.10	22.70				
10	12	6		23.20	23.14	21.79				
10	1	0		22.25	22.06	21.86				
10	1	23		22.21	22.09	21.67				
10	24	0		22.19	22.12	21.79				
10	1	1	16-QAM	22.36	22.14	22.01			18.76	0.0752
10	1	1	64-QAM	20.63	20.65	20.51				
10	1	1	256-QAM	18.85	18.43	18.16				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

NR n48 Maximum Average Power [dBm] (GT - LC = -3.6 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	19.22	23.20	22.85	19.68	0.0929		
15	1	36		23.15	23.15	18.65				
15	18	9		23.27	23.21	22.85				
15	1	0		19.22	23.19	22.79				
15	1	37		23.06	23.13	21.67				
15	36	0		19.19	23.24	18.81				
15	1	1	QPSK	19.28	23.23	22.85				
15	1	36		23.17	23.28	18.64				
15	18	9		23.25	23.20	22.86				
15	1	0		19.30	22.24	21.84				
15	1	37		22.17	22.14	18.66				
15	36	0		19.22	22.20	18.82				
15	1	1	16-QAM	18.28	22.55	21.85			18.95	0.0785
15	1	1	64-QAM	18.24	20.64	20.38				
15	1	1	256-QAM	18.78	18.42	18.16				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n48 Maximum Average Power [dBm] (GT - LC = -3.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
20	1	1	PI/2 BPSK	22.36	23.17	22.89	19.68	0.0929
20	1	49		23.24	23.20	21.68		
20	25	12		23.26	23.20	22.87		
20	1	0		22.35	23.19	22.93		
20	1	50		23.20	23.14	18.66		
20	50	0		22.28	23.20	18.84		
20	1	1	QPSK	19.32	23.22	22.92		
20	1	49		23.22	23.18	18.64		
20	25	12		23.28	23.24	22.88		
20	1	0		19.35	22.19	21.92		
20	1	50		22.19	22.18	18.71		
20	50	0		19.26	22.20	18.82		
20	1	1	16-QAM	18.31	22.25	21.84	18.65	0.0733
20	1	1	64-QAM	18.34	20.59	20.49		
20	1	1	256-QAM	18.87	18.71	18.37		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

NR n48 Maximum Average Power [dBm] (GT - LC = -3.6 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)
40	1	1	PI/2 BPSK	11.85	19.34	11.61	19.53	0.0897
40	1	104		11.64	19.04	10.97		
40	50	25		11.73	23.11	11.31		
40	1	0		11.83	19.37	11.61		
40	1	105		11.63	19.06	10.98		
40	100	0		11.74	18.57	11.25		
40	1	1	QPSK	11.82	19.39	11.62		
40	1	104		11.61	19.00	10.95		
40	50	25		11.74	23.13	11.27		
40	1	0		11.81	19.42	11.65		
40	1	105		11.61	19.08	10.97		
40	100	0		11.72	18.58	11.26		
40	1	1	16-QAM	11.39	19.45	11.20	15.85	0.0385
40	1	1	64-QAM	11.26	19.07	11.12		
40	1	1	256-QAM	11.31	18.87	11.28		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



<MIMO Mode>

Part96 NR n48 Maximum Average Power [dBm], DG = -1.06 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 6			Antenna 1			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
10	1	1	QPSK	18.91	18.84	18.74	18.68	19.12	18.81	21.81	21.99	21.79	20.93	0.1239
10	1	22		18.86	18.85	18.68	18.64	18.86	18.73	21.76	21.87	21.72		
10	12	6		18.93	18.87	18.79	18.69	18.95	18.73	21.82	21.92	21.77		
10	1	0		18.49	18.36	18.31	18.25	18.61	18.36	21.38	21.50	21.35		
10	1	23		18.35	18.35	18.22	18.14	18.26	18.14	21.26	21.32	21.19		
10	24	0		18.42	18.43	18.25	18.21	18.47	18.30	21.33	21.46	21.29		
10	1	1	16-QAM	18.79	18.89	18.86	18.45	19.40	18.96	21.63	22.16	21.92	21.10	0.1288
10	1	1	64-QAM	17.95	17.72	17.85	17.71	18.13	17.91	20.84	20.94	20.89		
10	1	1	256-QAM	14.96	14.76	14.73	14.67	15.26	15.00	17.83	18.03	17.88		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -1.06 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 6			Antenna 1			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
15	1	1	QPSK	15.51	18.92	18.81	15.00	19.11	19.02	18.27	22.03	21.93	20.97	0.1250
15	1	36		18.86	18.89	15.18	18.47	18.92	15.11	21.68	21.92	18.16		
15	19	9		18.93	18.92	18.84	18.59	18.94	18.73	21.77	21.94	21.80		
15	1	0		15.52	18.44	18.38	15.19	18.48	18.53	18.37	21.47	21.47		
15	1	37		18.35	18.16	15.25	17.96	18.42	15.14	21.17	21.30	18.21		
15	38	0		15.38	18.42	15.28	15.12	18.43	15.23	18.26	21.44	18.27		
15	1	1	16-QAM	15.32	18.87	18.84	15.25	19.12	18.99	18.30	22.01	21.93	20.95	0.1245
15	1	1	64-QAM	15.82	17.89	17.89	15.18	18.13	17.81	18.52	21.02	20.86		
15	1	1	256-QAM	15.00	14.82	14.90	14.57	15.20	15.06	17.80	18.02	17.99		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -1.06 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 6			Antenna 1			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
20	1	1	QPSK	15.54	18.94	18.80	15.22	19.17	19.05	18.39	22.07	21.94	21.01	0.1262
20	1	49		18.89	18.92	15.24	18.56	19.05	15.12	21.74	22.00	18.19		
20	25	12		19.01	18.94	18.85	18.67	18.93	18.84	21.85	21.95	21.86		
20	1	0		15.58	18.52	18.36	15.14	18.65	18.62	18.38	21.60	21.50		
20	1	50		18.35	18.41	15.22	18.00	18.52	15.08	21.19	21.48	18.16		
20	51	0		15.47	18.45	15.31	15.20	18.43	15.26	18.35	21.45	18.30		
20	1	1	16-QAM	15.67	18.83	18.67	15.30	19.13	19.03	18.50	21.99	21.86	20.93	0.1239
20	1	1	64-QAM	15.46	17.76	17.77	15.00	18.04	18.10	18.25	20.91	20.95		
20	1	1	256-QAM	15.00	14.83	14.71	14.74	15.20	14.95	17.88	18.03	17.84		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -1.06 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 6			Antenna 1			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
40	1	1	QPSK	9.06	17.64	9.05	8.70	17.63	9.03	11.89	20.65	12.05	20.87	0.1222
40	1	104		8.76	17.34	8.55	8.65	17.29	8.35	11.72	20.33	11.46		
40	53	26		8.93	18.93	8.72	8.76	18.90	8.92	11.86	21.93	11.83		
40	1	0		9.14	17.67	9.11	8.71	17.62	9.14	11.94	20.66	12.14		
40	1	105		8.77	17.33	8.47	8.61	17.34	8.37	11.70	20.35	11.43		
40	106	0		9.11	16.92	8.73	8.78	16.90	8.91	11.96	19.92	11.83		
40	1	1	16-QAM	9.05	17.55	8.93	8.67	17.58	9.07	11.87	20.58	12.01	19.61	0.0914
40	1	1	64-QAM	9.11	17.76	9.15	8.71	17.55	9.03	11.92	20.67	12.10		
40	1	1	256-QAM	9.07	15.18	9.11	8.82	15.19	9.18	11.96	18.20	12.16		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -3.49 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 7			Antenna 5			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
10	1	1	QPSK	19.02	19.06	18.23	19.11	19.44	18.84	22.08	22.26	21.56	18.77	0.0753
10	1	22		19.02	18.84	18.19	19.12	19.15	18.74	22.08	22.01	21.48		
10	12	6		19.06	18.89	18.22	19.20	19.20	18.76	22.14	22.06	21.51		
10	1	0		17.59	17.58	16.85	17.55	17.82	17.38	20.58	20.71	20.13		
10	1	23		17.46	17.35	16.63	17.56	17.56	17.21	20.52	20.47	19.94		
10	24	0		17.55	17.35	16.72	17.63	17.65	17.29	20.60	20.51	20.02		
10	1	1	16-QAM	18.55	18.55	17.79	18.64	18.92	18.41	21.61	21.75	21.12	18.26	0.0670
10	1	1	64-QAM	16.84	17.05	16.32	17.94	17.23	16.77	20.44	20.15	19.56		
10	1	1	256-QAM	14.16	14.05	13.22	14.14	14.41	13.86	17.16	17.24	16.56		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.49 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 7			Antenna 5			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
15	1	1	QPSK	14.45	19.11	18.53	14.48	19.45	19.09	17.48	22.29	21.83	18.80	0.0759
15	1	36		18.91	18.82	13.62	19.15	19.21	14.26	22.04	22.03	16.96		
15	19	9		19.08	18.94	18.32	19.17	19.24	18.81	22.14	22.10	21.58		
15	1	0		14.52	17.68	17.05	14.57	17.92	17.56	17.56	20.81	20.32		
15	1	37		17.42	17.30	13.61	17.58	17.65	14.25	20.51	20.49	16.95		
15	38	0		14.52	17.37	13.75	14.59	17.69	14.29	17.57	20.54	17.04		
15	1	1	16-QAM	14.45	18.52	17.90	14.68	18.89	18.49	17.58	21.72	21.22	18.23	0.0665
15	1	1	64-QAM	14.58	17.02	16.41	14.42	17.42	16.92	17.51	20.23	19.68		
15	1	1	256-QAM	14.08	14.11	13.41	14.00	14.62	14.00	17.05	17.38	16.73		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.49 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 7			Antenna 5			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
20	1	1	QPSK	14.52	19.27	18.55	14.56	19.53	19.12	17.55	22.41	21.85	18.92	0.0780
20	1	49		18.90	18.91	13.54	19.16	19.29	14.17	22.04	22.11	16.88		
20	25	12		19.11	18.89	18.34	19.25	19.23	18.83	22.19	22.07	21.60		
20	1	0		14.58	17.62	17.12	14.64	17.85	17.64	17.62	20.75	20.40		
20	1	50		17.40	17.30	13.57	17.56	17.91	14.15	20.49	20.63	16.88		
20	51	0		14.54	17.33	13.78	14.67	17.69	14.22	17.62	20.52	17.02		
20	1	1	16-QAM	14.53	18.72	18.06	14.57	18.93	18.70	17.56	21.84	21.40	18.35	0.0684
20	1	1	64-QAM	14.71	17.24	16.69	14.57	17.43	17.02	17.65	20.35	19.87		
20	1	1	256-QAM	13.93	14.16	13.55	14.02	14.46	14.14	16.99	17.32	16.87		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.49 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 7			Antenna 5			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
40	1	1	QPSK	8.07	16.64	7.75	8.12	16.91	8.19	11.11	19.79	10.99	18.57	0.0719
40	1	104		7.88	16.07	6.96	8.07	16.51	7.51	10.99	19.31	10.25		
40	53	26		8.12	18.87	7.55	8.36	19.22	7.93	11.25	22.06	10.75		
40	1	0		8.16	16.66	7.82	8.21	16.93	8.22	11.20	19.81	11.03		
40	1	105		7.82	16.01	6.93	8.05	16.44	7.51	10.95	19.24	10.24		
40	106	0		8.07	15.84	7.54	8.26	16.17	7.95	11.18	19.02	10.76		
40	1	1	16-QAM	8.02	16.56	7.63	8.15	16.88	8.01	11.10	19.73	10.83	16.87	0.0486
40	1	1	64-QAM	8.27	17.79	7.86	8.18	16.86	7.71	11.24	20.36	10.80		
40	1	1	256-QAM	8.04	14.15	7.75	8.17	14.33	8.11	11.12	17.25	10.94		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -0.95 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 6			Antenna 5			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
10	1	1	QPSK	18.95	18.81	18.87	18.03	18.39	17.81	21.52	21.62	21.38	20.68	0.1169
10	1	22		18.86	18.89	18.77	18.11	18.07	17.63	21.51	21.51	21.25		
10	12	6		18.99	18.95	18.81	18.21	18.18	17.78	21.63	21.59	21.34		
10	1	0		18.54	18.41	18.40	17.59	17.93	17.38	21.10	21.19	20.93		
10	1	23		18.41	18.44	18.33	17.62	17.55	17.19	21.04	21.03	20.81		
10	24	0		18.44	18.41	18.29	17.71	17.71	17.26	21.10	21.08	20.82		
10	1	1	16-QAM	19.13	18.86	18.78	18.17	18.45	17.86	21.69	21.67	21.35	20.74	0.1186
10	1	1	64-QAM	18.09	17.68	17.71	17.13	17.23	16.39	20.65	20.47	20.11		
10	1	1	256-QAM	14.87	14.87	14.82	14.23	14.48	13.78	17.57	17.69	17.34		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -0.95 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 6			Antenna 5			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
15	1	1	QPSK	15.51	18.91	18.75	14.56	18.41	17.96	18.07	21.68	21.38	20.73	0.1183
15	1	36		18.88	18.81	15.13	18.21	18.12	14.15	21.57	21.49	17.68		
15	19	9		18.98	18.95	18.89	18.19	18.14	17.77	21.61	21.57	21.38		
15	1	0		15.55	18.41	18.27	14.62	17.82	17.46	18.12	21.14	20.89		
15	1	37		18.37	18.32	15.21	17.66	17.58	14.19	21.04	20.98	17.74		
15	38	0		15.44	18.46	15.34	14.68	17.65	14.29	18.09	21.08	17.86		
15	1	1	16-QAM	15.42	18.92	18.73	14.54	18.37	17.88	18.01	21.66	21.34	20.71	0.1178
15	1	1	64-QAM	15.63	17.83	17.63	14.54	17.46	17.01	18.13	20.66	20.34		
15	1	1	256-QAM	15.08	14.99	14.76	14.21	14.55	14.01	17.68	17.79	17.41		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -0.95 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 6			Antenna 5			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
20	1	1	QPSK	15.53	18.92	18.83	14.57	18.37	18.12	18.09	21.66	21.50	20.71	0.1178
20	1	49		18.88	18.91	15.22	18.09	18.18	14.19	21.51	21.57	17.75		
20	25	12		19.00	18.99	18.87	18.21	18.19	17.82	21.63	21.62	21.39		
20	1	0		15.63	18.49	18.28	14.65	17.94	17.66	18.18	21.23	20.99		
20	1	50		18.38	18.45	15.18	17.54	17.69	14.16	20.99	21.10	17.71		
20	51	0		15.48	18.47	15.32	14.70	17.66	14.28	18.12	21.09	17.84		
20	1	1	16-QAM	15.39	18.69	18.89	14.67	18.43	18.15	18.06	21.57	21.55	20.62	0.1153
20	1	1	64-QAM	15.53	17.95	17.76	14.59	17.26	17.02	18.10	20.63	20.42		
20	1	1	256-QAM	15.11	14.95	14.77	14.00	14.52	14.12	17.60	17.75	17.47		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -0.95 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 6			Antenna 5			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
40	1	1	QPSK	9.11	17.58	17.67	8.19	16.81	16.91	11.68	20.22	20.32	20.66	0.1164
40	1	104		8.84	17.35	17.33	8.07	16.53	16.44	11.48	19.97	19.92		
40	53	26		8.95	18.96	18.92	8.35	18.21	18.20	11.67	21.61	21.59		
40	1	0		9.16	17.60	17.72	8.12	16.91	16.91	11.68	20.28	20.34		
40	1	105		8.78	17.39	17.37	8.08	16.51	16.49	11.45	19.98	19.96		
40	106	0		9.06	16.95	16.93	8.29	16.15	16.16	11.70	19.58	19.57		
40	1	1	16-QAM	8.95	17.78	17.59	8.23	16.92	16.98	11.62	20.38	20.31	19.43	0.0877
40	1	1	64-QAM	9.09	17.65	17.56	8.18	16.69	16.76	11.67	20.21	20.19		
40	1	1	256-QAM	9.23	15.17	15.18	8.31	14.47	14.50	11.80	17.84	17.86		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -3.69 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 7			Antenna 1			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
10	1	1	QPSK	19.07	18.87	18.80	19.67	20.16	19.86	22.39	22.57	22.37	18.88	0.0773
10	1	22		19.01	19.00	18.68	19.66	20.01	19.73	22.36	22.54	22.25		
10	12	6		19.08	19.01	18.78	19.71	19.97	19.78	22.42	22.53	22.32		
10	1	0		17.65	17.41	17.32	18.25	18.53	18.35	20.97	21.02	20.88		
10	1	23		17.52	17.42	17.21	18.14	18.34	18.16	20.85	20.91	20.72		
10	24	0		17.51	17.46	17.27	18.18	18.41	18.21	20.87	20.97	20.78		
10	1	1	16-QAM	18.53	18.46	18.48	19.23	19.63	19.40	21.90	22.09	21.97	18.40	0.0692
10	1	1	64-QAM	17.04	16.92	16.72	19.57	17.96	17.73	21.50	20.48	20.26		
10	1	1	256-QAM	14.11	13.87	13.99	14.67	15.17	14.91	17.41	17.58	17.48		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.69 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 7			Antenna 1			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
15	1	1	QPSK	14.54	18.99	18.74	15.14	20.16	20.06	17.86	22.62	22.46	18.93	0.0782
15	1	36		18.94	18.92	14.14	19.74	20.04	15.16	22.37	22.53	17.69		
15	19	9		19.13	19.01	18.81	19.73	19.97	19.82	22.45	22.53	22.35		
15	1	0		14.62	17.48	17.31	15.21	18.62	18.52	17.94	21.10	20.97		
15	1	37		17.44	17.36	14.16	18.12	18.46	15.21	20.80	20.96	17.73		
15	38	0		14.56	17.46	14.25	15.19	18.46	15.28	17.90	21.00	17.81		
15	1	1	16-QAM	14.51	18.48	18.32	15.15	19.61	19.65	17.85	22.09	22.05	18.40	0.0692
15	1	1	64-QAM	14.63	16.83	16.63	15.12	18.05	17.82	17.89	20.49	20.28		
15	1	1	256-QAM	14.18	13.87	13.79	14.52	15.26	15.04	17.36	17.63	17.47		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.69 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 7			Antenna 1			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
20	1	1	QPSK	16.65	18.98	18.81	15.14	20.19	20.21	18.97	22.64	22.58	18.95	0.0785
20	1	49		19.00	19.02	14.18	19.63	20.11	15.21	22.34	22.61	17.74		
20	25	12		19.12	19.04	18.87	19.73	20.00	19.88	22.45	22.56	22.41		
20	1	0		14.78	17.51	17.32	15.33	18.74	18.67	18.07	21.18	21.06		
20	1	50		17.46	17.48	14.11	18.04	18.59	15.13	20.77	21.08	17.66		
20	51	0		14.55	17.53	14.26	15.19	18.46	15.32	17.89	21.03	17.83		
20	1	1	16-QAM	14.55	18.41	18.37	15.11	19.97	19.61	17.85	22.27	22.04	18.58	0.0721
20	1	1	64-QAM	14.65	16.99	16.87	15.35	18.04	18.11	18.02	20.56	20.54		
20	1	1	256-QAM	14.06	13.97	13.68	14.67	15.17	15.14	17.39	17.62	17.48		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Part96 NR n48 Maximum Average Power [dBm], DG = -3.69 dBi														
BW (MHz)	RB Size	RB Offset	Mod	Antenna 7			Antenna 1			Combine			EIRP (dBm)	EIRP (W)
				Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest		
40	1	1	QPSK	8.17	16.65	7.95	8.81	17.63	9.05	11.51	20.18	11.55	18.84	0.0766
40	1	104		7.84	16.35	7.50	8.72	17.33	8.50	11.31	19.88	11.04		
40	53	26		7.99	18.97	7.71	8.79	20.00	9.00	11.42	22.53	11.41		
40	1	0		8.15	16.68	8.10	8.85	17.62	9.10	11.52	20.19	11.64		
40	1	105		7.81	16.33	7.43	8.71	17.35	8.47	11.29	19.88	10.99		
40	106	0		8.16	15.92	7.70	8.82	16.95	8.95	11.51	19.48	11.38		
40	1	1	16-QAM	8.18	16.55	7.89	8.71	17.69	9.30	11.46	20.17	11.66	16.48	0.0445
40	1	1	64-QAM	8.21	16.58	8.10	8.74	17.49	9.12	11.49	20.07	11.65		
40	1	1	256-QAM	8.11	14.21	8.07	8.75	15.20	9.05	11.45	17.74	11.60		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



FR1 n48

<SISO Mode>

Peak-to-Average Ratio

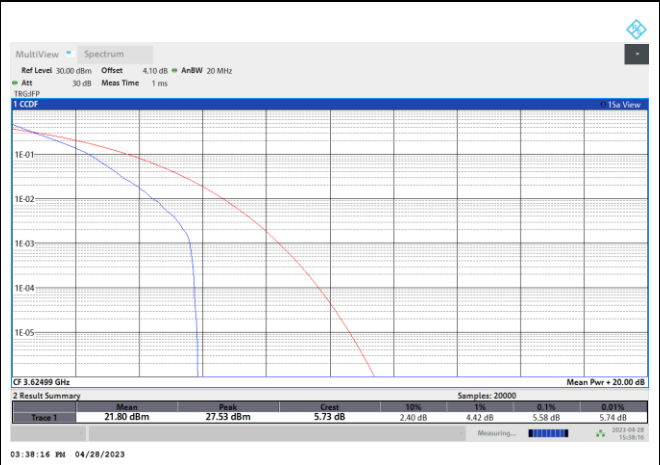
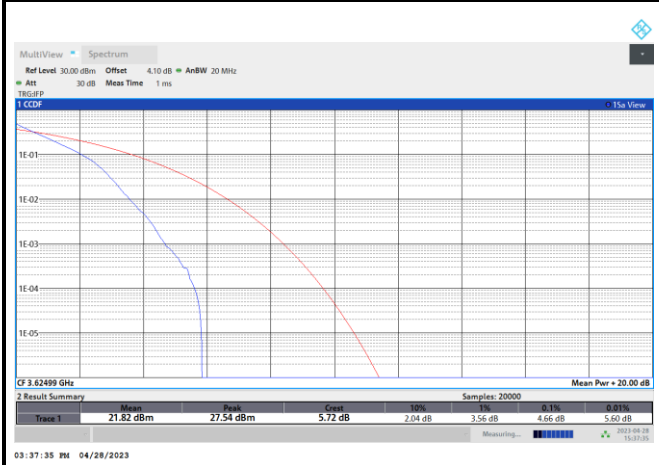
Mode	FR1 n48 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.66	5.58	5.72	5.74	PASS
Mode	FR1 n48 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.48				PASS



FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

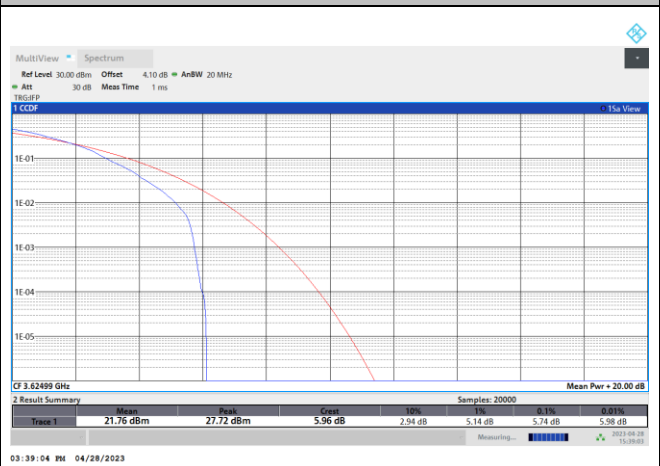
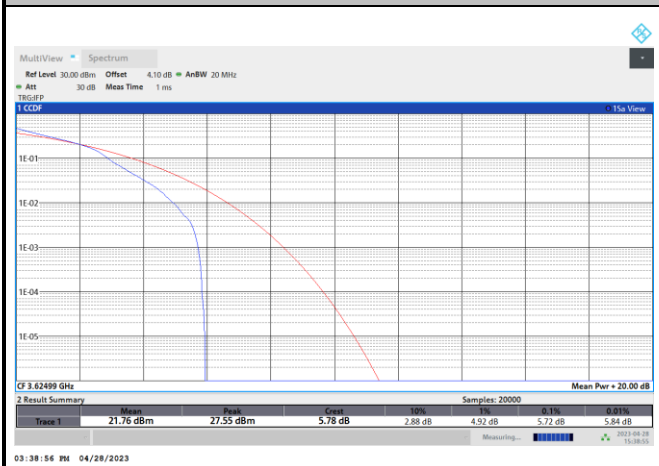
PI/2 BPSK

QPSK

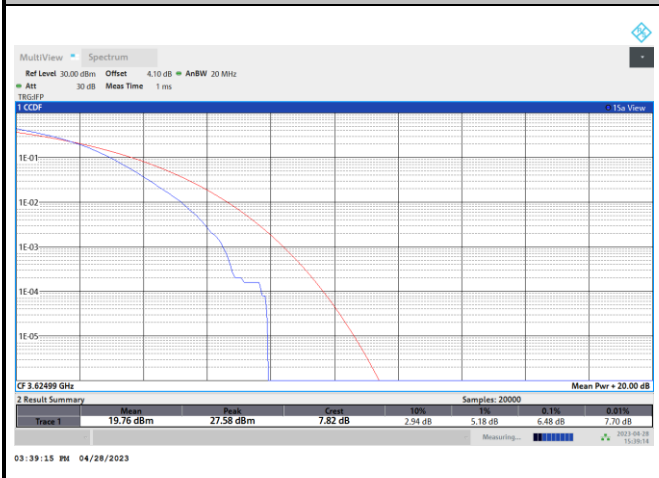


16QAM

64QAM



256QAM





26dB Bandwidth

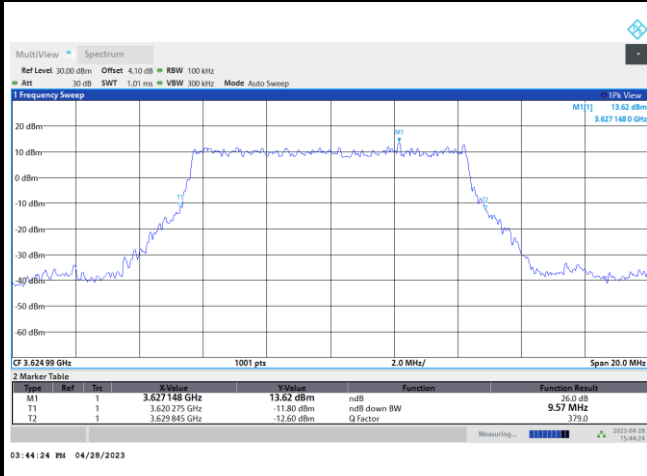
Mode	FR1 n48 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	9.57	14.27	19.38	-	38.44	-	-	-
BW	80MHz	90MHz	100MHz					
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK					
Middle CH	-	-	-					

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.35	9.71	14.84	15.02	19.54	20.02	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.79	9.53	15.11	14.96	19.62	19.58	-	-
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	41.00	41.16	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	41.00	41.32	-	-	-	-	-	-
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	-	-	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	-	-	-	-		



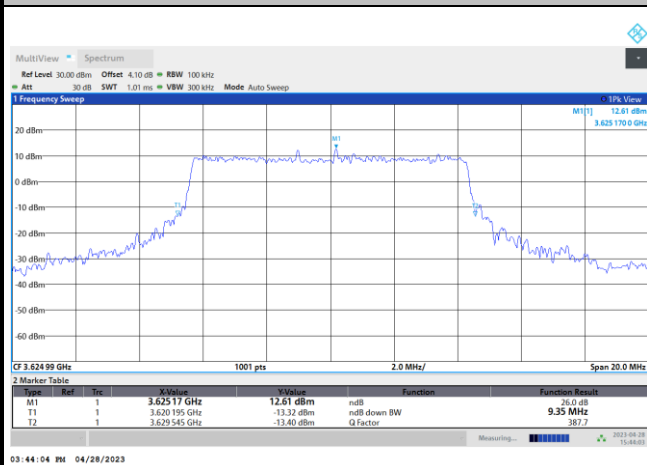
FR1 n48 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

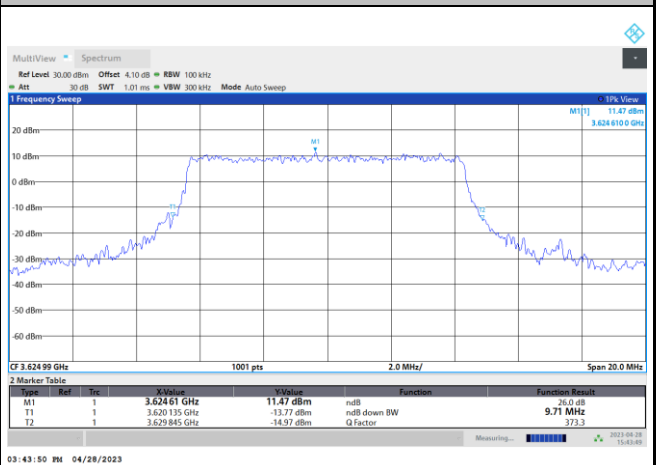


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

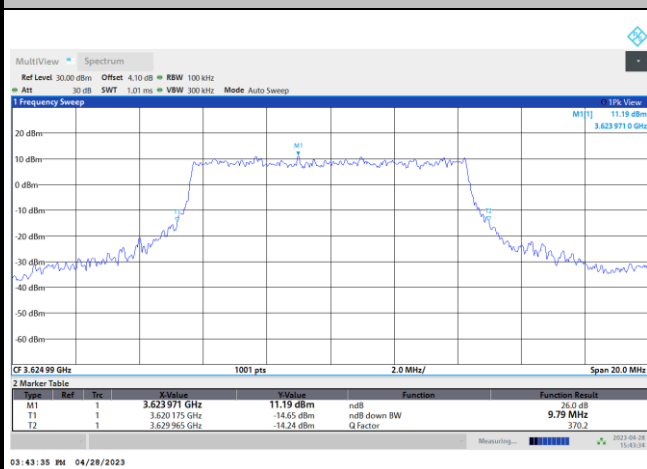
QPSK



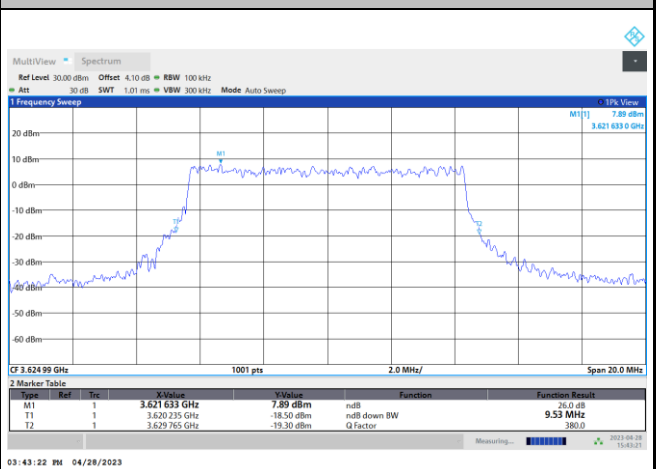
16QAM



64QAM



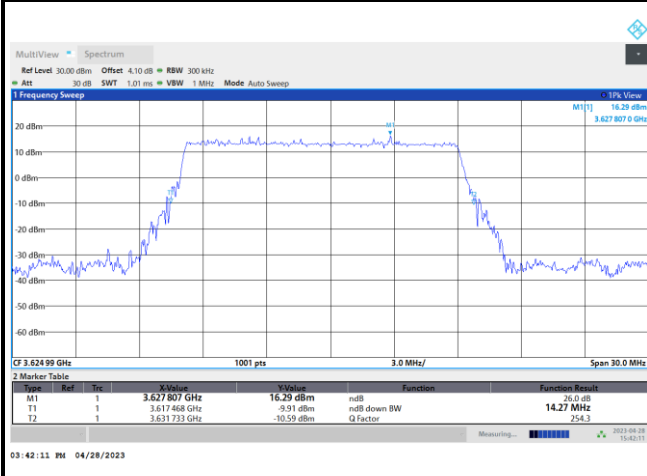
256QAM





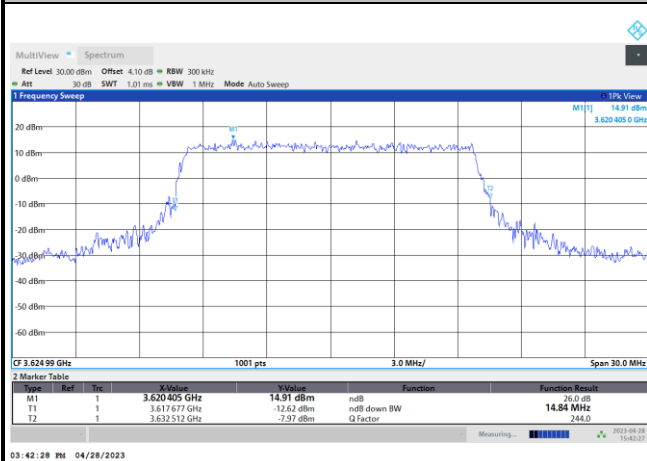
FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

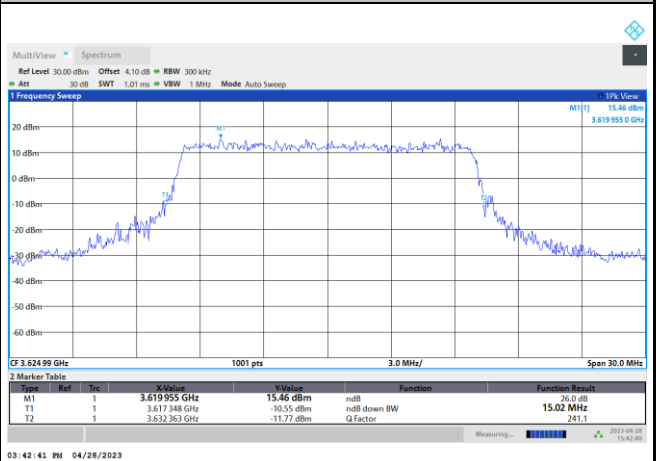


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

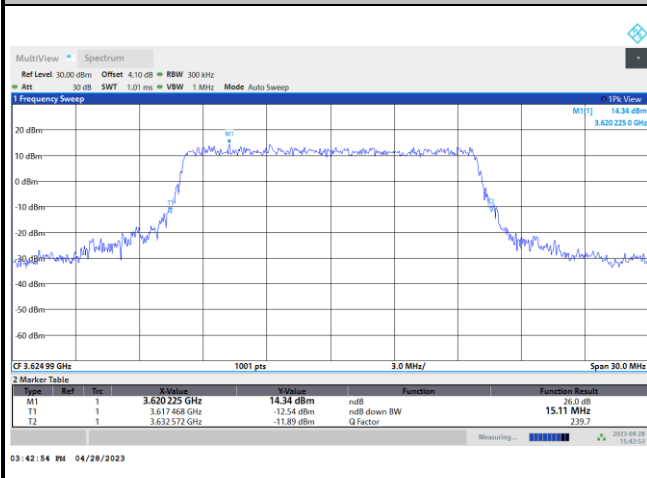
QPSK



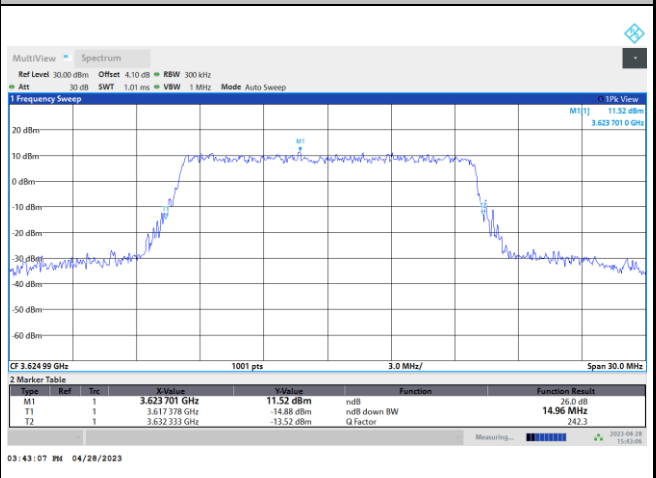
16QAM



64QAM



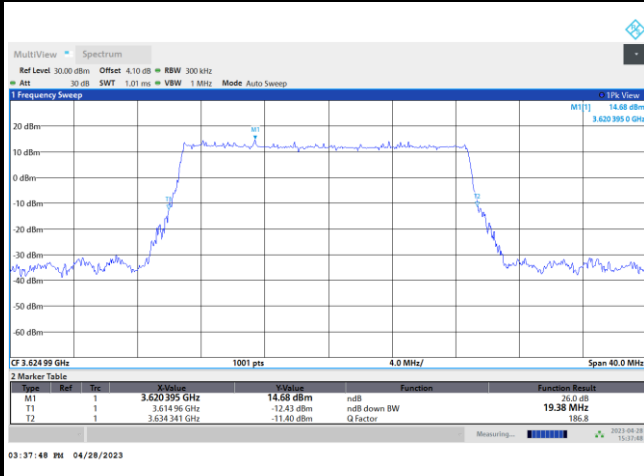
256QAM





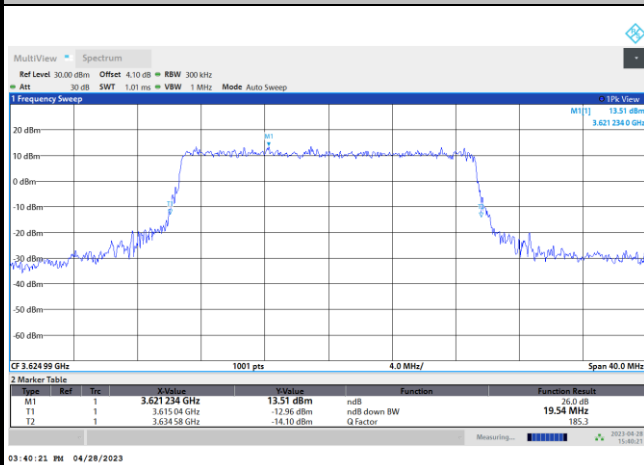
FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

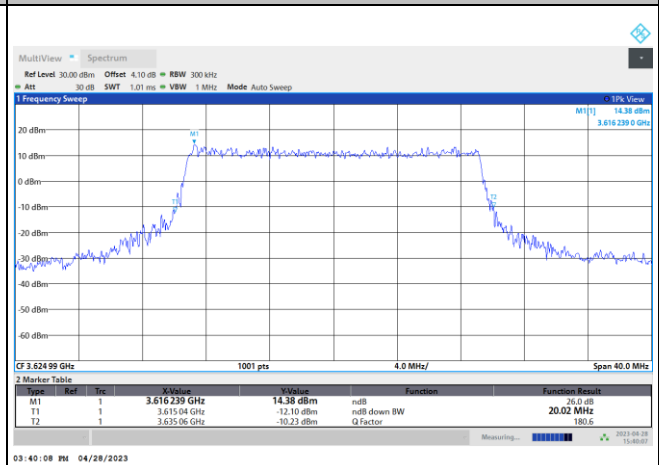


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

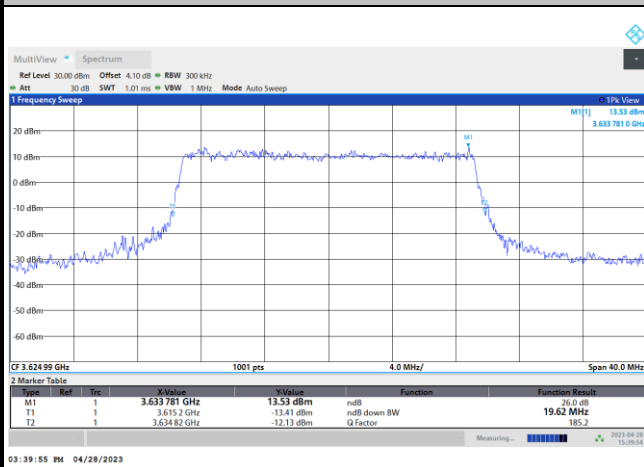
QPSK



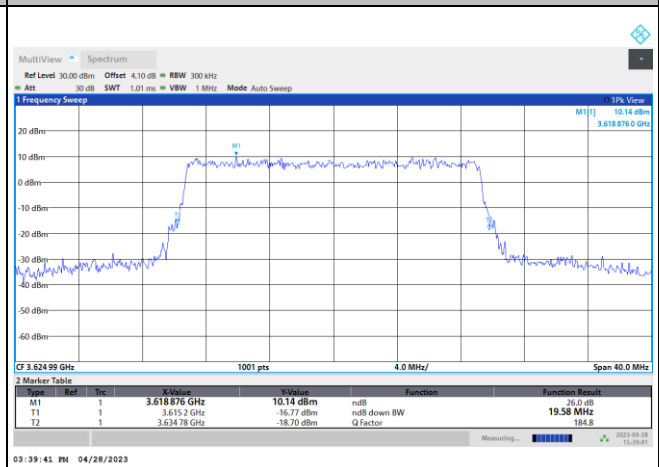
16QAM



64QAM



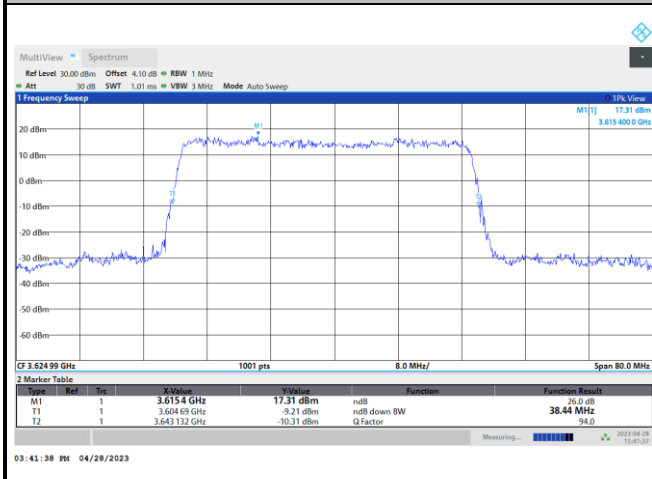
256QAM





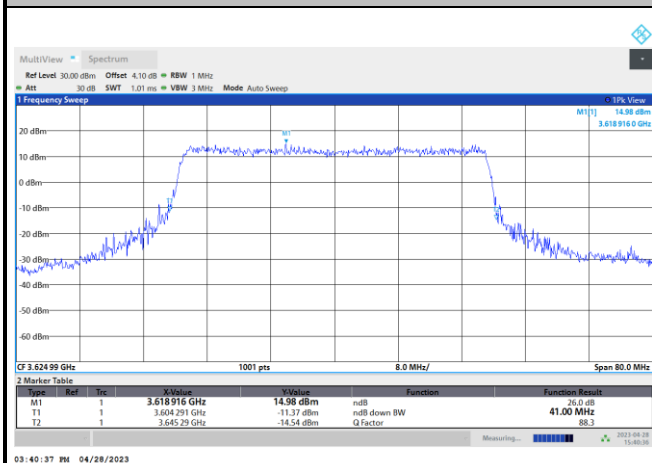
FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

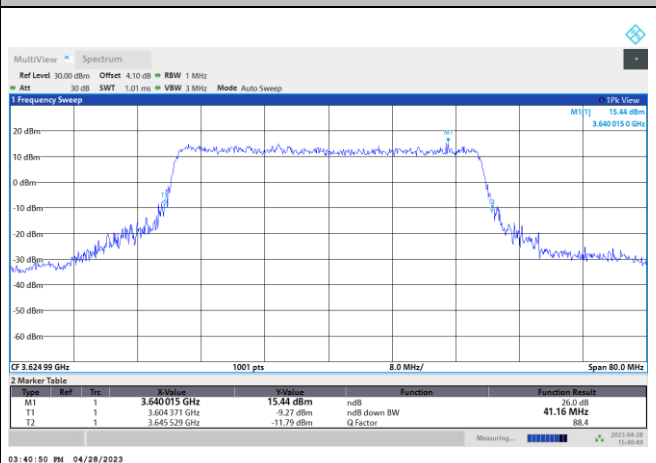


FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

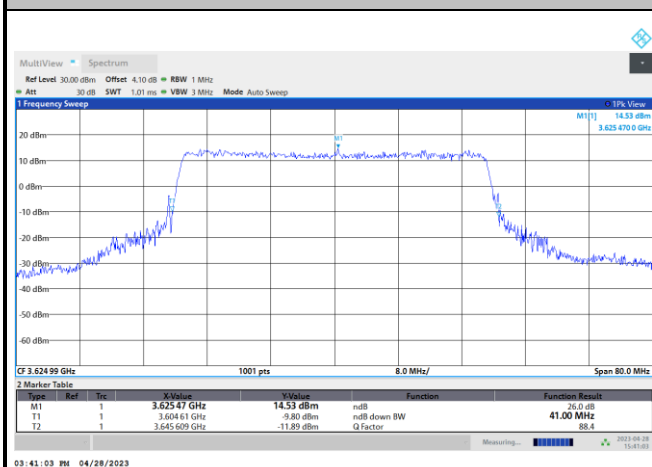
QPSK



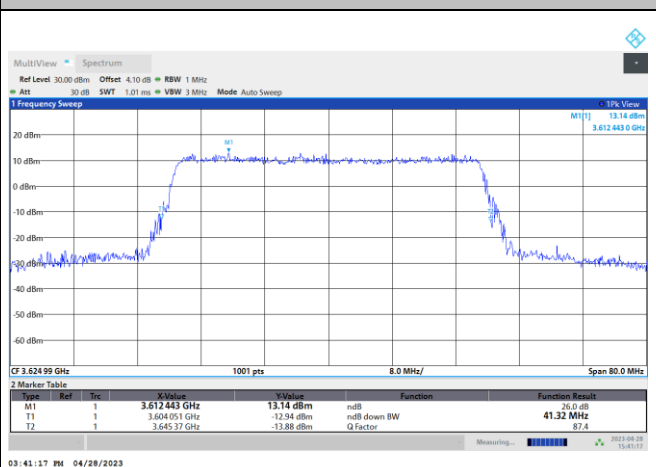
16QAM



64QAM



256QAM





Occupied Bandwidth

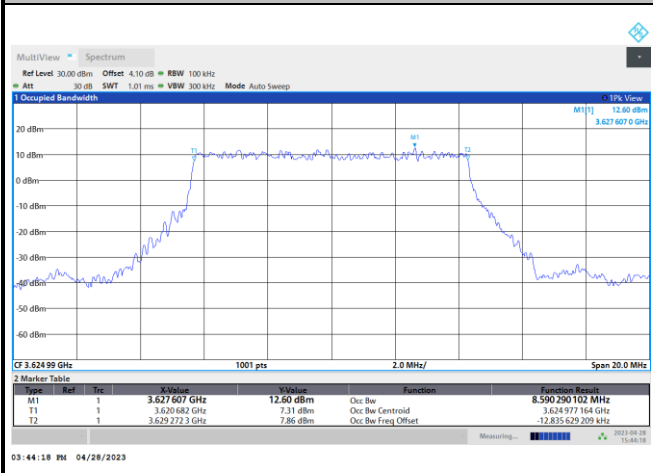
Mode	FR1 n48 : OB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	8.59	12.95	17.97	-	36.02	-	-	-
BW	80MHz	90MHz	100MHz					
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK					
Middle CH	-	-	-					

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.61	8.61	13.66	13.77	18.30	18.30	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.61	8.59	13.68	13.76	18.28	18.26	-	-
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	38.14	38.20	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	38.14	38.24	-	-	-	-	-	-
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	-	-	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	-	-	-	-		



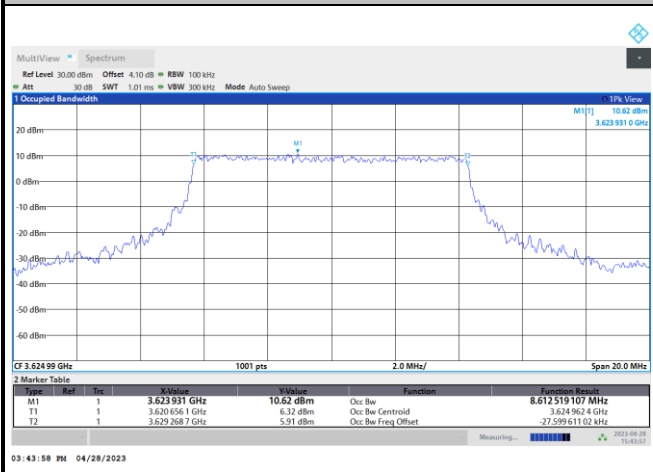
FR1 n48 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

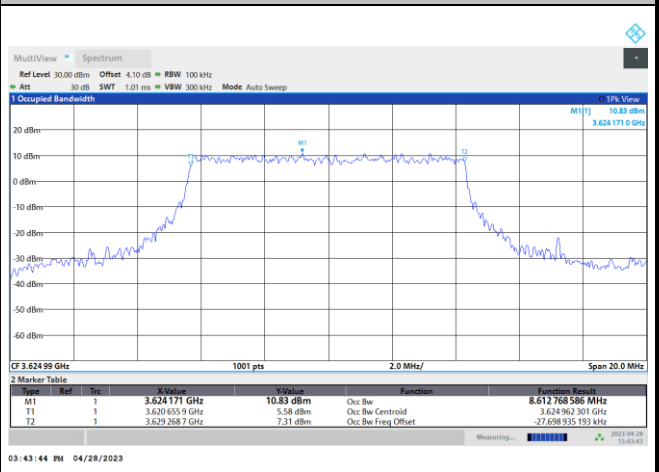


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

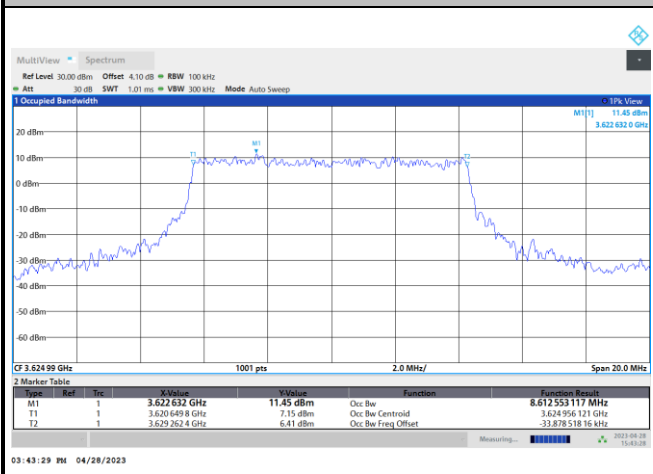
QPSK



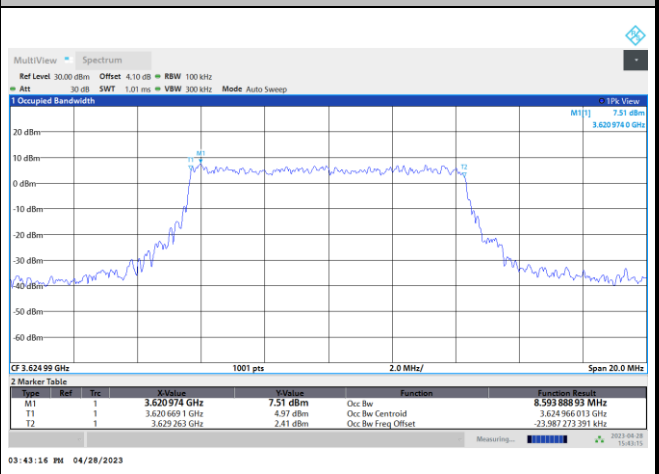
16QAM



64QAM



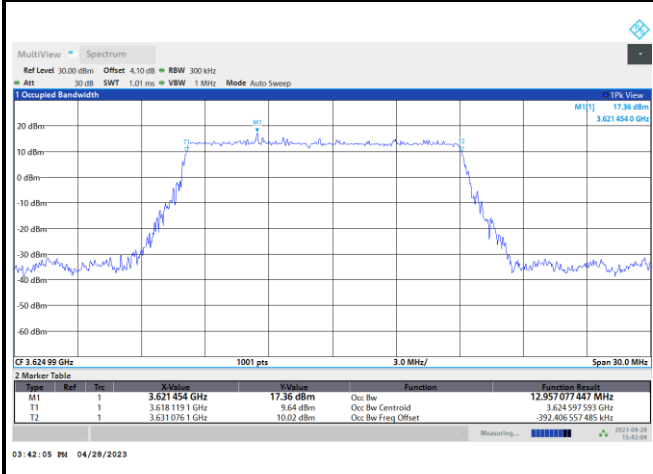
256QAM





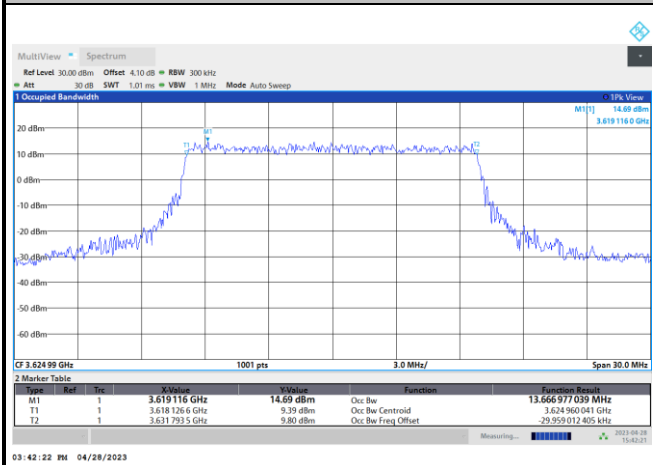
FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

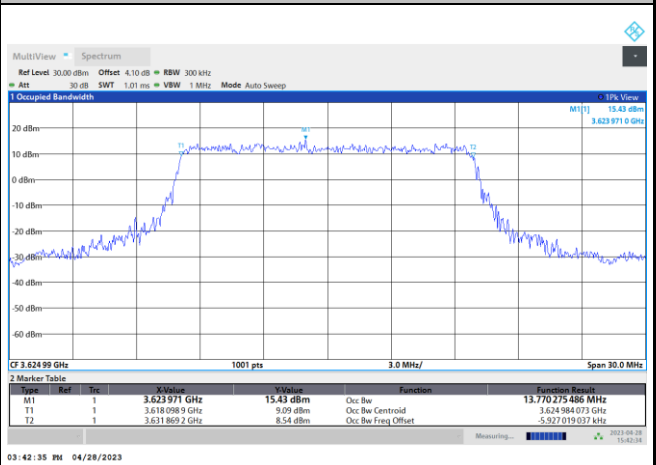


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

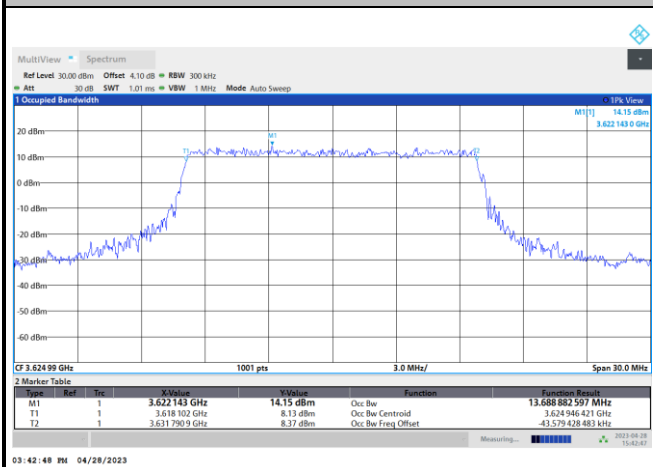
QPSK



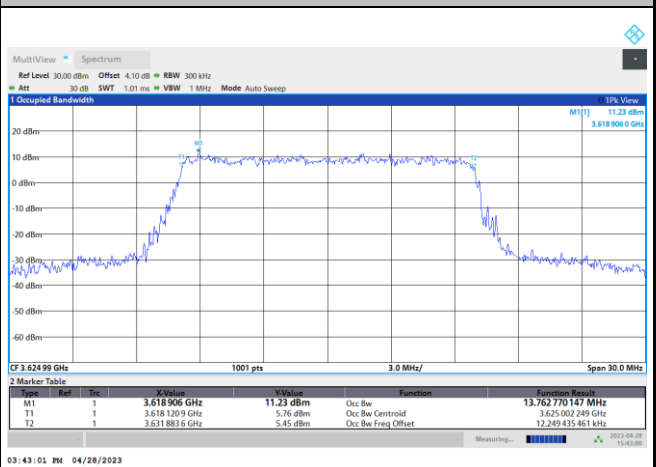
16QAM



64QAM



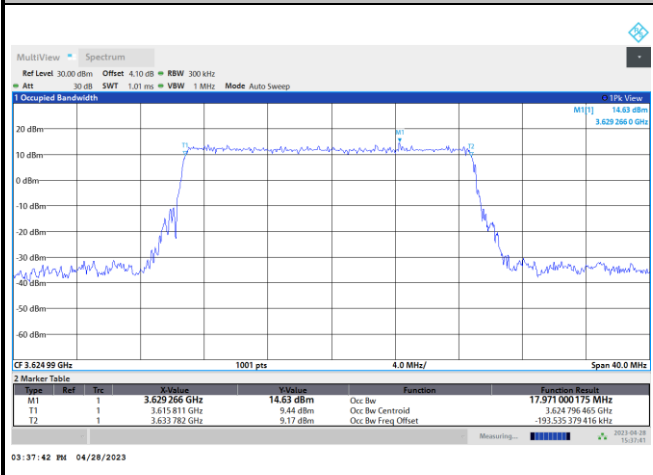
256QAM





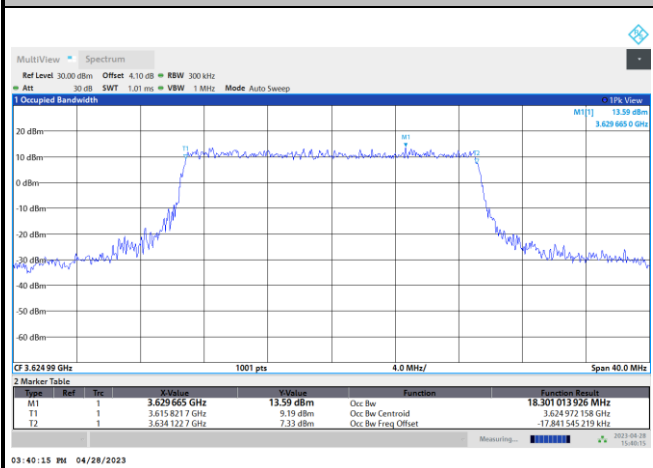
FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

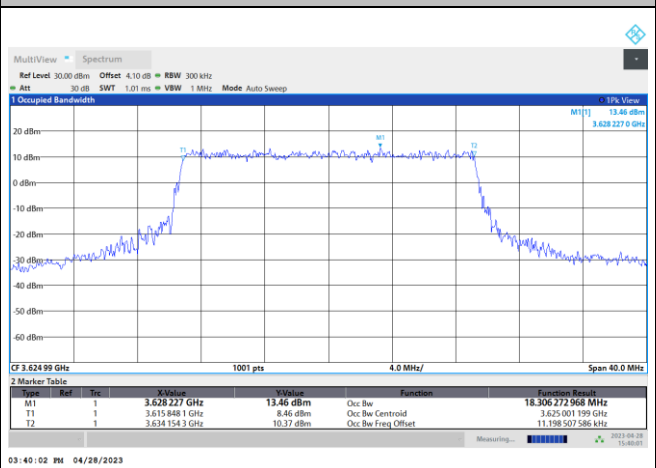


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

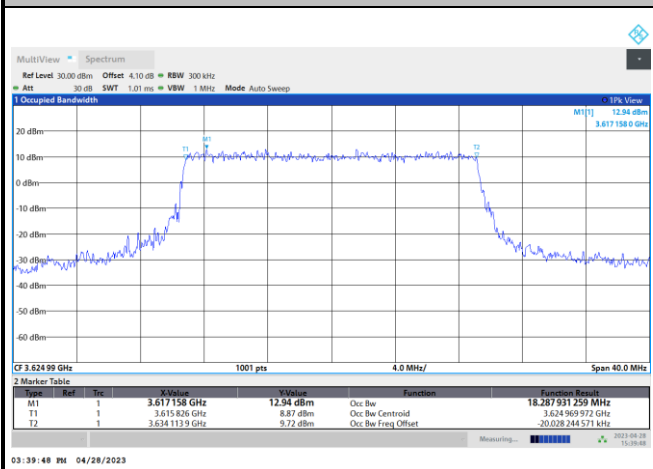
QPSK



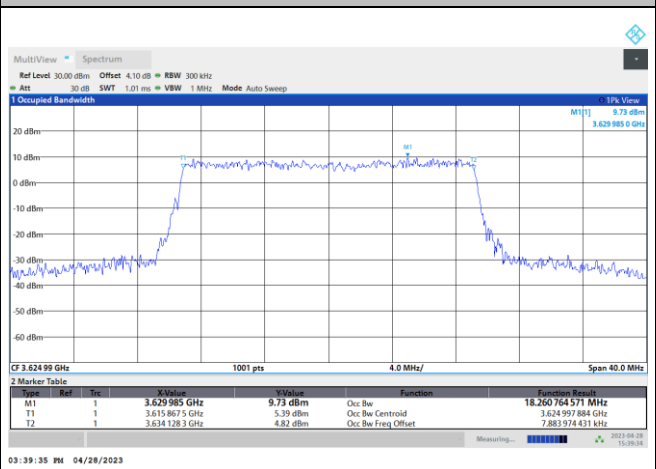
16QAM



64QAM



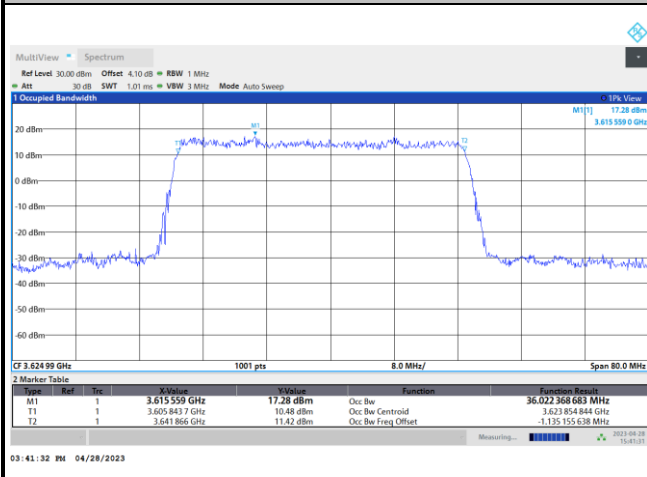
256QAM





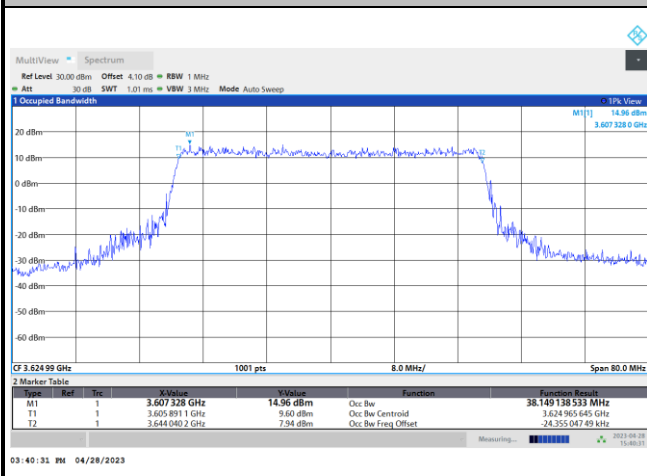
FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

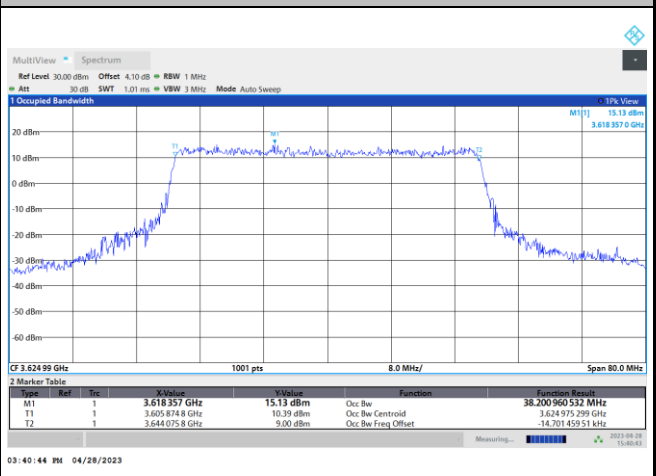


FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

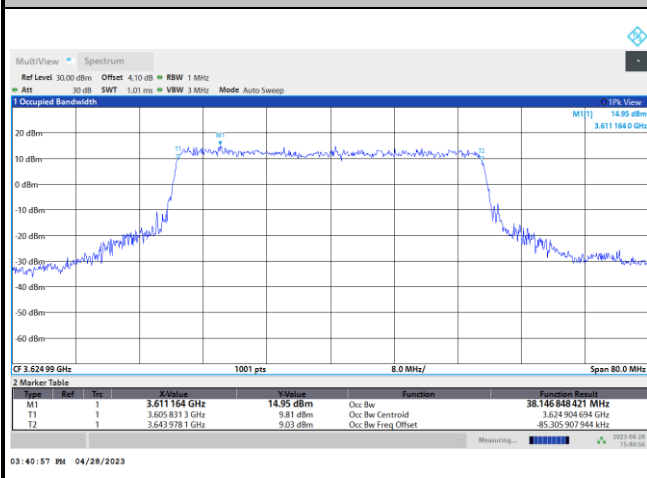
QPSK



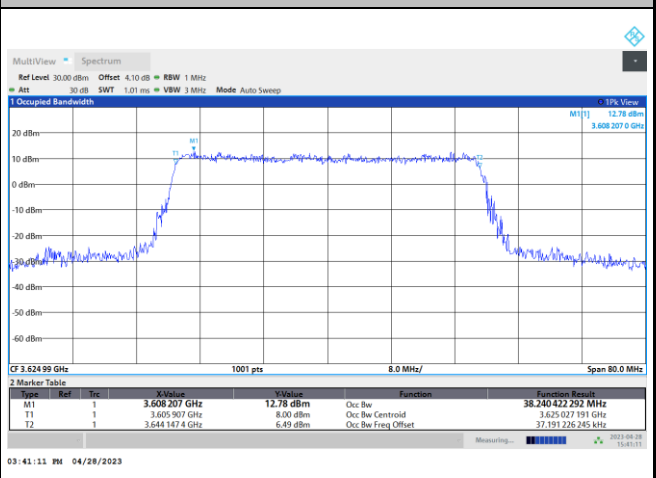
16QAM



64QAM



256QAM





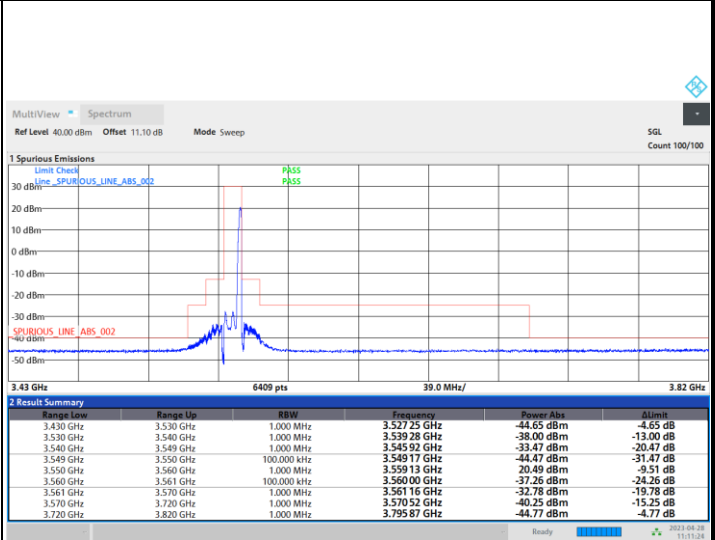
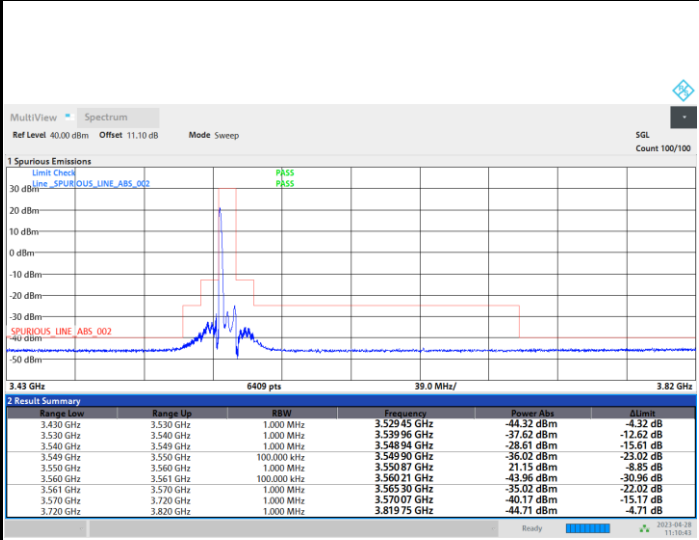
Unwanted Emission (MASK)

FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

1RB0

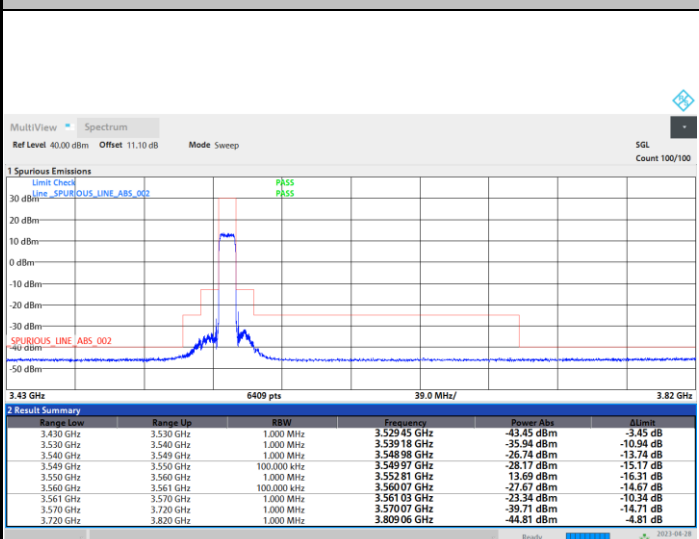
1RBmax



11:10:43 AM 04/28/2023

11:11:24 AM 04/28/2023

Full RB



11:12:06 AM 04/28/2023

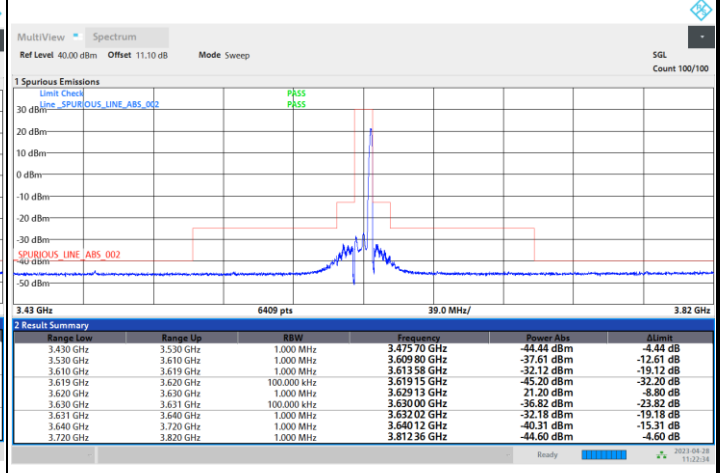
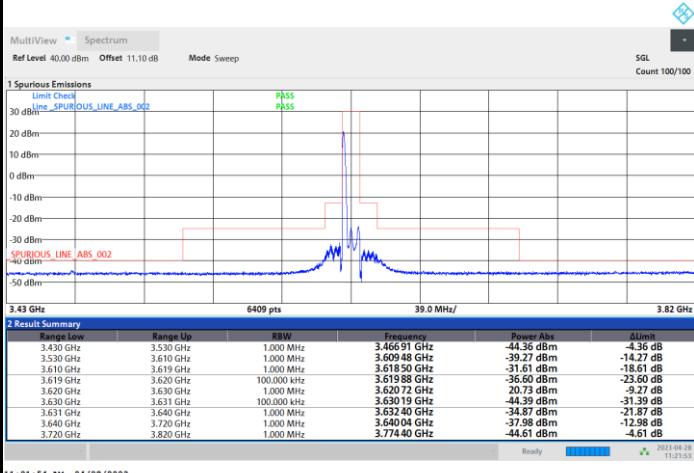


FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

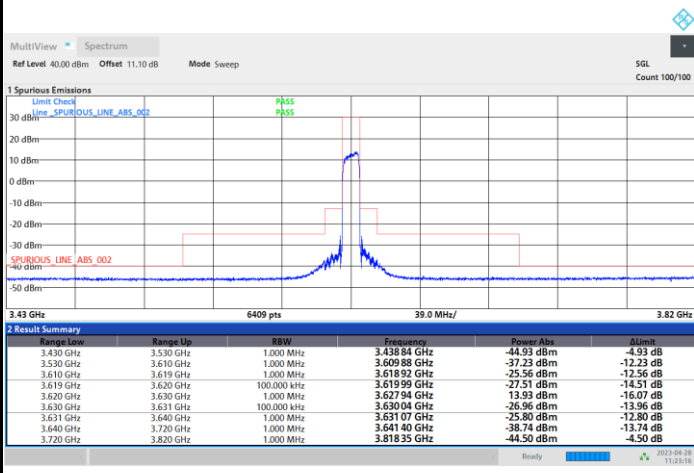
Middle Channel

1RB0

1RBmax



Full RB



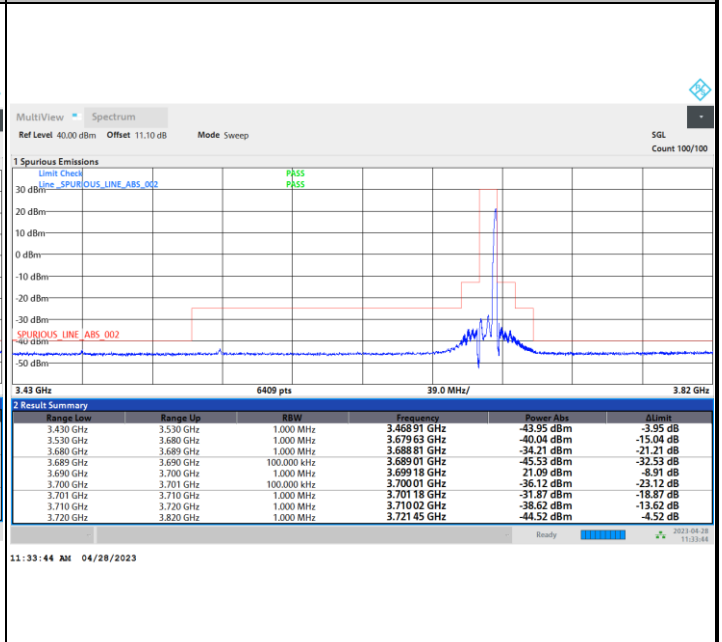
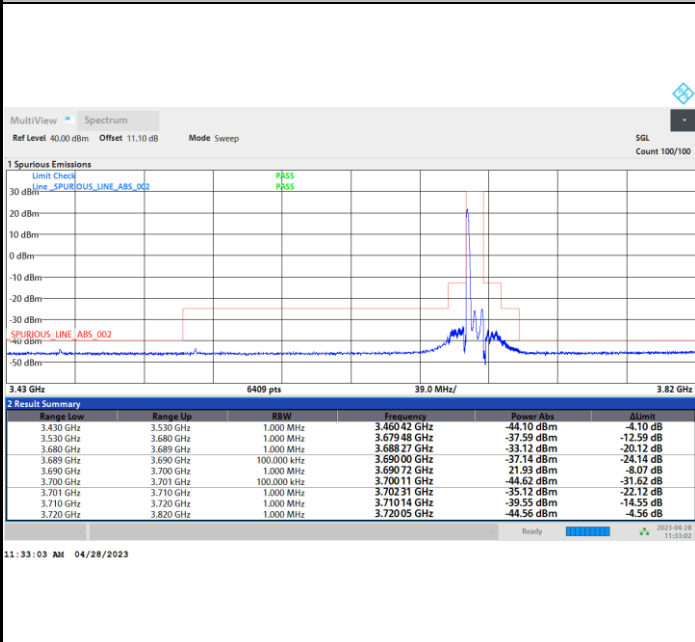


FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

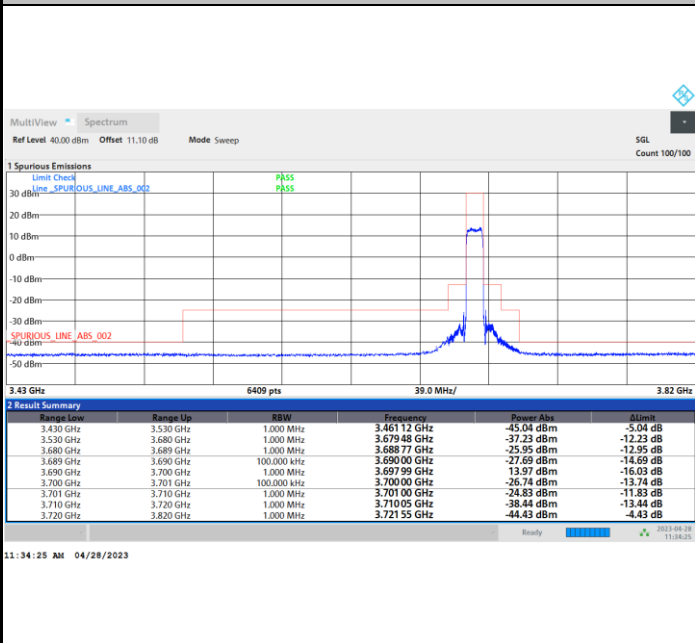
Highest Channel

1RB0

1RBmax



Full RB



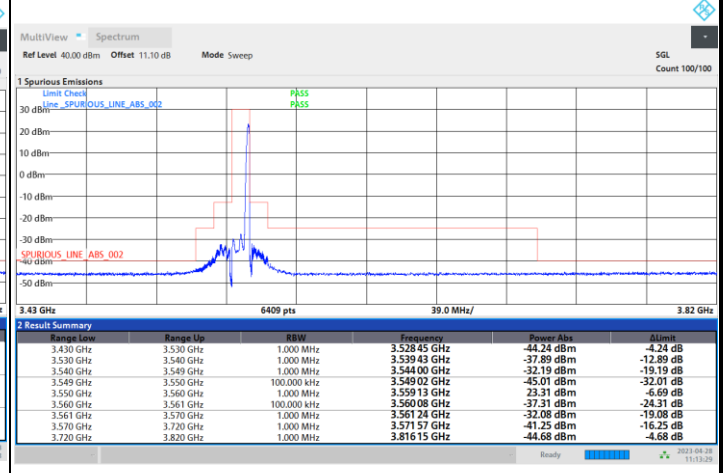
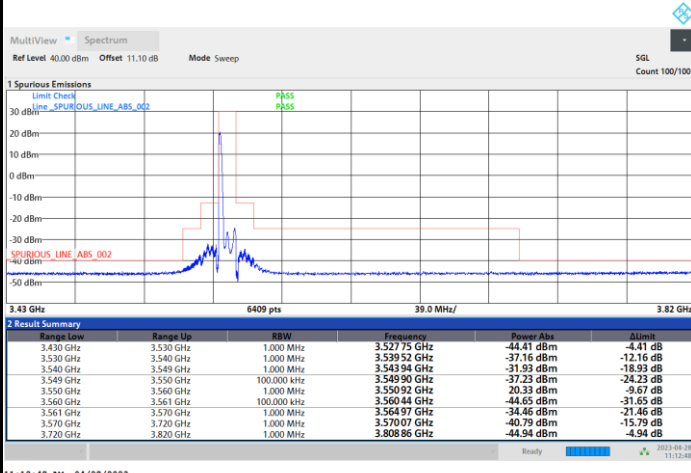


FR1 n48 / 10MHz / DFT-S OFDM / QPSK

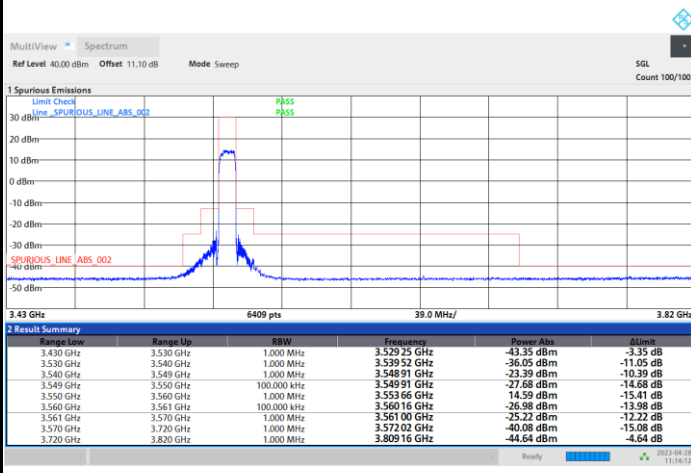
Lowest Channel

1RB0

1RBmax



Full RB



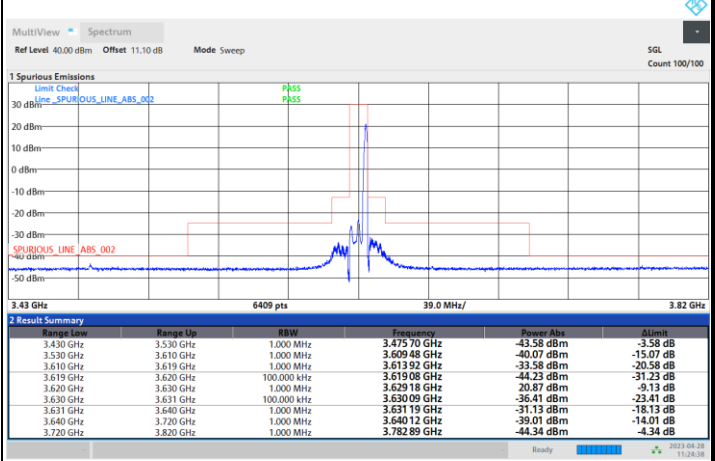
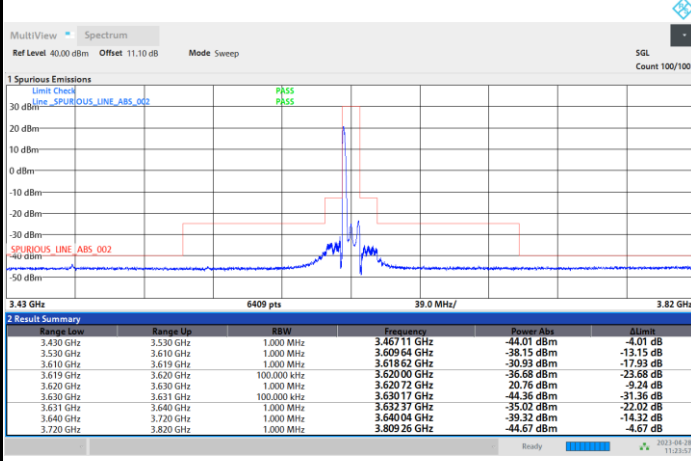


FR1 n48 / 10MHz / DFT-S OFDM / QPSK

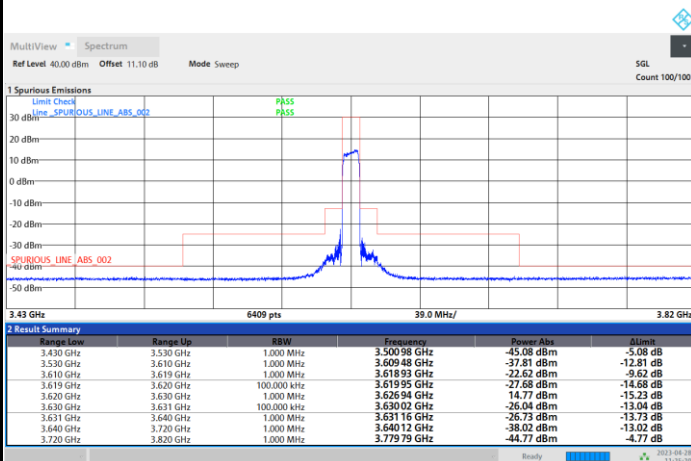
Middle Channel

1RB0

1RBmax



Full RB



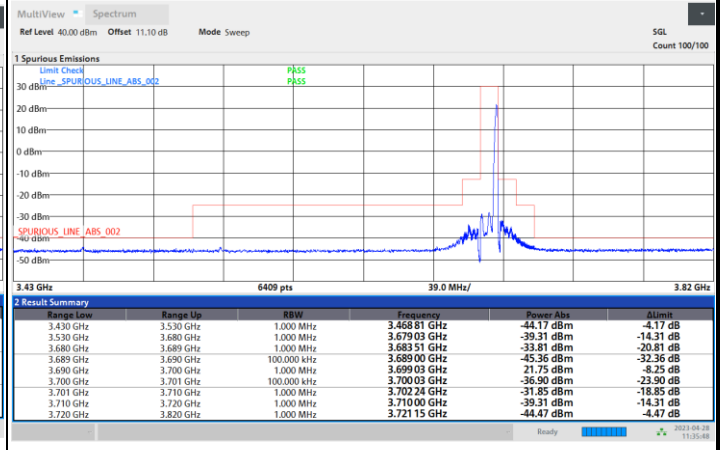
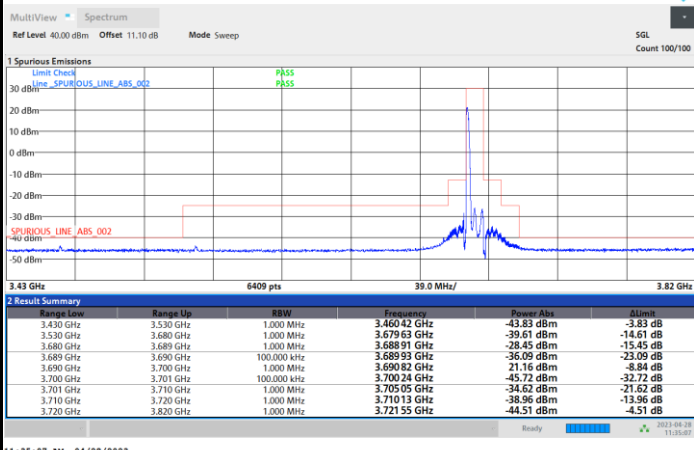


FR1 n48 / 10MHz / DFT-S OFDM / QPSK

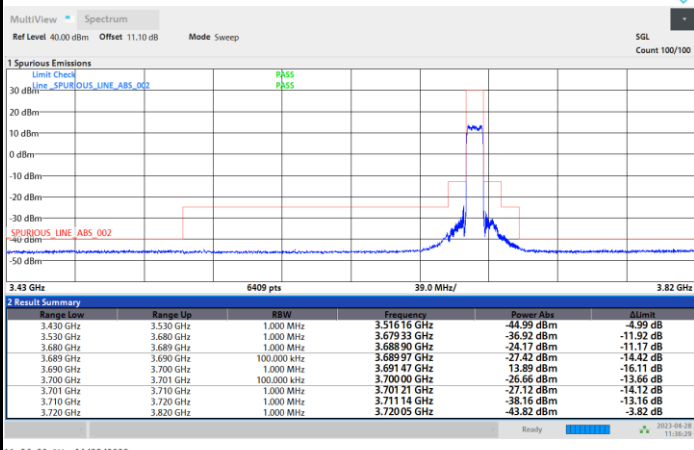
Highest Channel

1RB0

1RBmax



Full RB



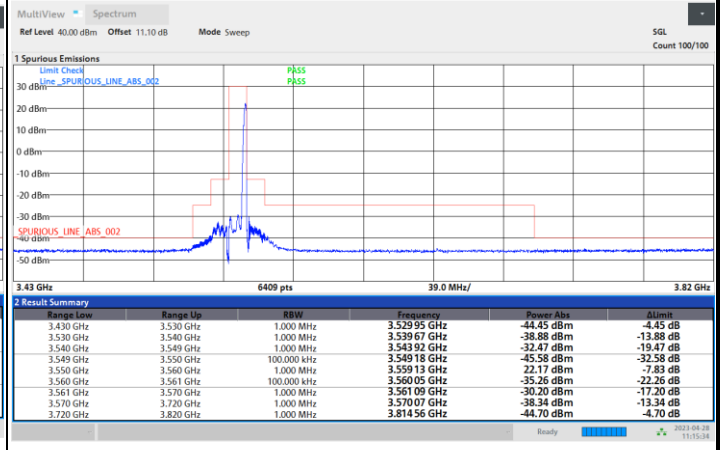
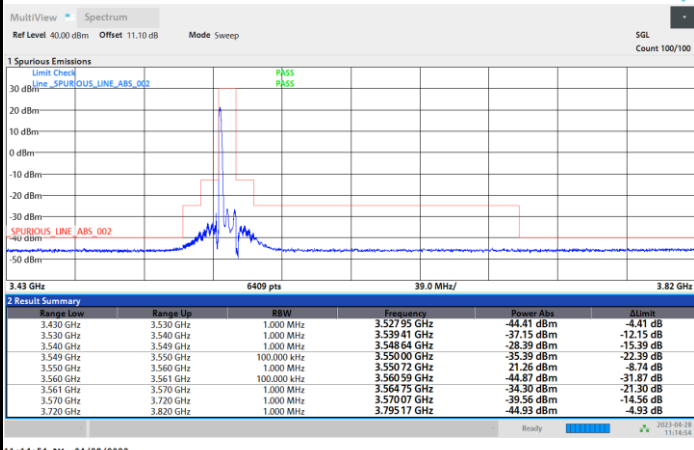


FR1 n48 / 10MHz / DFT-S OFDM / 16QAM

Lowest Channel

1RB0

1RBmax



Full RB

